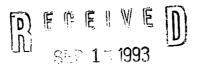
PRC Environmental Management, Inc. 233 North Michigan Avenue Suite 1621 Chicago, IL 60601 312-856-8700 Fax 312-938-0118



PIKE

September 14, 1993

SITE ASSESSMENT SECTION



Ms. Jeanne Griffin
Work Assignment Manager
U.S. Environmental Protection Agency
Site Assessment Section
77 West Jackson Boulevard
Chicago, Illinois 60604

Subject:

Work Assignment No. 29-5JZZ Screening Site Inspections

Dear Ms. Griffin:

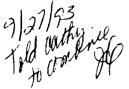
PRC Environmental Management, Inc. (PRC), is submitting the enclosed screening site inspection report (SSIR) for the following site in Toledo, Ohio:

Treasure Island - Manhattan Dump OHD 980 611 305

As we discussed last week, the name of the site assigned in the statement of work (SOW) and its identification number is Manhattan Cleaners and OHD 981 529 092, respectively. (The site name in CERCLIS is Manhattan Dump.) PRC discovered during the site reconnaissance that a company called Manhattan Cleaners disposed of waste on part of the Treasure Island Landfill and that this portion is contiguous with and similar to other portions of the Treasure Island Landfill. In addition, both areas are owned by the city of Toledo.

The Ohio Environmental Protection Agency (OEPA) and PRC recommended that the two sites be combined and renamed, and per your approval, PRC conducted the SSI at the entire landfill. Accordingly, PRC recommends that the Manhattan Dump site be removed from CERCLIS, that the Treasure Island Landfill be renamed to match the enclosed SSIR, and that the name and identification number in the SOW be changed.

Please note that in 1987, a site inspection at the site was conducted by Ecology & Environment, Inc. (E & E). E & E included the Manhattan Cleaners portion of the site in its site figure, but no names other than Treasure Island Landfill were mentioned in E & E's report.



Ms. Jeanne Griffin September 14, 1993 Page 2

Please also note that the transmittal memorandum, preliminary Hazard Ranking System (HRS) scoresheets, and NPL characteristics data collection form are not enclosed with the SSIR. PRC is awaiting information from a Ohio Department of Natural Resources (ODNR) biologist concerning endangered and threatened animal species in the vicinity of the site. Because this information is critical to the preliminary HRS score, PRC cannot submit the additional deliverables until this information becomes available. PRC was initially told by the biologist that the information was forthcoming, but the biologist discovered that the information request must be processed through an attorney in Columbus, Ohio. PRC will submit the above-listed documents as soon as the necessary information is received.

If you have any questions or comments concerning the site, please call me at (312) 856-8736, or Kris Kruk at (312) 946-6480.

Sincerely,

Julie Kaiser

Project Manager

Enclosure

cc:

Carl Norman, EPA Project Officer (letter only)
Brigitte Manzke, EPA Contracting Officer (letter only)
Laura Fay, OEPA (disk copy of report)
Tina Baker, OEPA Northwest District Office
Majid Chaudhry, PRC Program Manager

PRC Environmental Management, Inc. 233 North Michigan Avenue Suite 1621 Chicago, IL 60601 312-856-8700 Fax 312-938-0118



EXPANDED SCREENING SITE INSPECTION REPORT

TREASURE ISLAND-MANHATTAN DUMP 2020 Manhattan Boulevard Toledo, Ohio 43612

U.S. EPA ID NO.: OHD 980 611 305

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY

Site Assessment Section 77 West Jackson Boulevard Chicago, IL 60604

EPA Work Assignment No. : 29-5JZZ

EPA Region : 5

Date Prepared : September 14, 1993

Contract No. : 68-W8-0084 PRC No. : 030-002968

Prepared by : PRC Environmental Management, Inc.

(Kristine Kruk)

Contractor Project Manager : Julie Kaiser
Telephone No. : (312) 856-8700
EPA Work Assignment Manager : Jeanne Griffin
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1.0 INTRODUCTION

PRC Environmental Management, Inc. (PRC), was tasked by the U.S. Environmental Protection Agency (U.S. EPA) to conduct a screening site inspection (SSI) at the Treasure Island-Manhattan (TIM) Dump site (latitude 41°40'30"N and longitude 83°31'30"W) under Contract No. 68-W8-0084, Work Assignment No. 29-5JZZ.

The primary objective of an SSI is to determine whether a site has the potential to be placed on the National Priorities List (NPL). The NPL identifies sites where releases or threatened releases of hazardous substances pose a risk to public health or the environment serious enough to warrant further investigation and possible remediation under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), and the Superfund Amendments and Reauthorization Act of 1986 (SARA).

Information gathered during the SSI is used to generate a preliminary Hazard Ranking System (HRS) score. The HRS is the primary criterion U.S. EPA uses to determine whether a site should be placed on the NPL (U.S. EPA 1990). The SSI is usually the first investigation performed to collect and analyze environmental samples to support HRS scoring. Sampling locations are strategically chosen to identify hazardous substances present, to determine whether contaminants are being released to the environment, and to determine whether targets have been exposed to site-related contaminants.

Specifically, the objectives of the SSI are as follows:

- To collect data to evaluate sites using the HRS
- To screen out sites that are not eligible for the NPL based on their HRS scores
- To collect samples to establish representative background contaminant levels
- To document current site conditions
- To assess the need for emergency response actions

After the SSI report is finalized, U.S. EPA, in consultation with state authorities, will determine whether the site should undergo further investigation or should be designated "site evaluation

accomplished" (SEA). The SEA designation means that no additional investigations will be conducted based on information available at the time of the SEA designation. However, if new site information is brought to U.S. EPA's attention, the site may be re-evaluated. For sites warranting further investigation under CERCLA and SARA authority, either an expanded site inspection (ESI) will be conducted to collect additional data, or an HRS package will be prepared if existing data is sufficient to support a score of 28.50 or greater for proposal to the NPL.

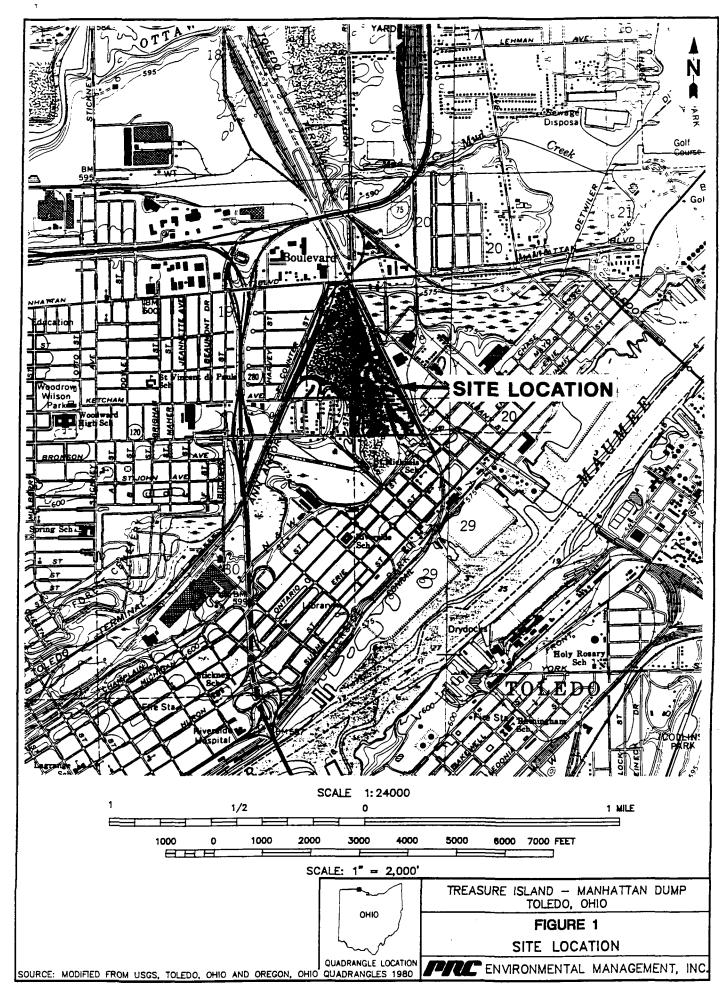
This report documents the results of an SSI conducted at the TIM Dump site in Toledo, Lucas County, Ohio. PRC first gathered and reviewed information from the Ohio Environmental Protection Agency (OEPA) and from U.S. EPA Region 5 CERCLA files. PRC then performed a reconnaissance of the TIM Dump on January 26 and 27, 1993. The inspection included an interview with the site representative and a walk-through inspection of the site. Based on information obtained during the site reconnaissance, PRC prepared a site-specific implementation plan (SSIP) and submitted the plan to U.S. EPA for approval. U.S. EPA approved the SSIP on March 2, 1993. During the SSI, PRC collected one groundwater sample, six surface water samples, and nine sediment samples on March 23 and 24, 1993.

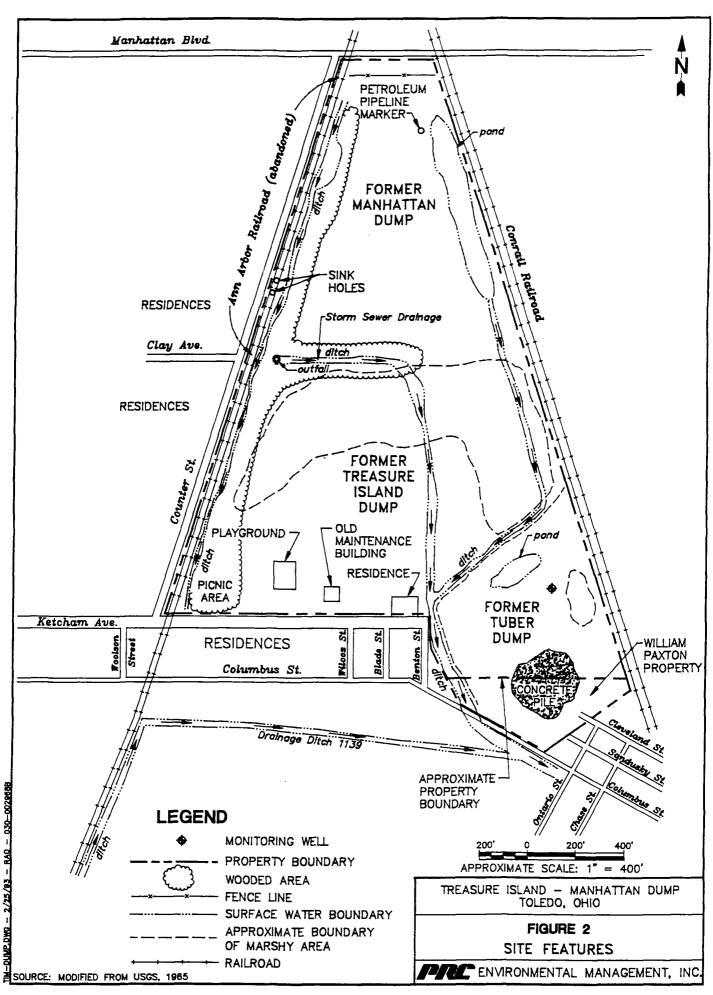
2.0 SITE BACKGROUND

This section describes the TIM Dump site; site operations and history, including waste disposal practices; and previous investigations.

2.1 SITE DESCRIPTION

The TIM Dump site measures about 150 acres in size and is located at 2020 Manhattan Boulevard in Toledo, Lucas County, Ohio (see Figure 1). This inactive landfill originally consisted of the following three smaller landfills: (1) the Manhattan Dump, (2) the Treasure Island Dump, and (3) S.H. Tuber & Company (Tuber) Dump (see Figure 2). The northernmost 21 to 34 acres of the site comprise the former Manhattan Dump (OEPA 1986). Based on PRC's observations, the southernmost 30 to 40 acres comprise the former Tuber Dump, and the remaining 76 to 99 acres comprise the former Treasure Island Dump (Toledo 1993a and 1993b). The three landfills presently are collectively referred to as the TIM Dump. The site is bordered by Ketcham Avenue and William





Paxton's concrete recycling facility to the south, abandoned Ann Arbor Railroad tracks to the west, Conrail (formerly Ann Arbor) Railroad tracks to the east, and Manhattan Boulevard to the north (Toledo Division of Traffic Engineering 1975; E&E 1987). Residences are located south of Ketcham Avenue and west of Counter Street, and one residence is located on site.

The highest point of bank elevation at the site is below the normal level of Lake Erie; therefore, prior to landfilling operations, the site was a wetland (FPS 1984). Much of the site, including the center, contains ponded, marshy areas, and portions have been delineated as wetlands (DOI 1977). A storm water drainage ditch flows through the center of the TIM Dump site (see Figure 2). Portions of the site along this drainage ditch are located within its 100-year flood plain (FEMA 1980). Elevated fill areas exist in the center of the former Manhattan and Tuber Dumps, and a city park, including a playground and picnic area, is currently located in the area of the former Treasure Island Dump. The fill within the former Manhattan and Tuber Dumps may be up to 15 feet deep, is heterogeneous in composition, and, although it was compacted by machinery, contains many voids (Kunkle 1971). Concrete, metal, asphalt, and wood were also observed throughout the fill area of the former Tuber Dump. Allegedly, Mr. Paxton's concrete recycling facility, which borders the site to the south, deposited construction debris on top of the former Tuber Dump fill area.

A monitoring well is present in the northeast portion of the fill area in the former Tuber Dump. This well was installed by Midwest Environmental Consultants, Inc. (Midwest), a contractor to the State of Ohio, as part of the Buckeye Basin Greenbelt Parkway (Parkway) project. The parkway is a proposed highway to be constructed by the Ohio Department of Transportation (ODOT). Current plans show that the parkway will run east-west along the Tuber Dump-William Paxton property boundary (PRC 1993b).

A 54-inch diameter storm sewer outfall from an adjacent residential area is located at the western border of the site near Clay Avenue. The storm sewer drainage ditch flows eastward until about the center of the site, where it turns and flows south until it converges with Drainage Ditch 1139 about 200 feet south of the site. A USGS topographic map identifies Drainage Ditch 1139 as intermittently flowing surface water body (USGS 1965). However, Drainage Ditch 1139 has been documented as a perenially flowing ditch (Toledo 1993c). Drainage Ditch 1139 enters an underground pipe lying beneath Columbus Street at a pumping station near the intersection of Columbus and Ontario Streets.

Ultimately, Drainage Ditch 1139 enters the Maumee River about 1 mile south of the site (PRC 1993a). A second ditch that also converges with the storm sewer ditch and consequently joins Drainage Ditch 1139 originates in the ponded area near the eastern border of the site and flows southward between the former Treasure Island and Tuber Dumps. A third ditch is located along the facility's western border. This ditch appears to terminate at the site's southern border; therefore, the ultimate outlet of this ditch is unknown (see Figure 2). These ditches drain the majority of the area of the site.

TIM Dump is bordered to the west and south by residences, to the east by an industrial area and residences, and to the north by an abandoned service station and a CSX Railroad terminal. The nearest residence is located on site near the intersection of Benton Street and Ketcham Avenue. Because the site is located in the City of Toledo, a highly populated urban area, the population density of the surrounding site area Toledo is about 190,948 persons within a 4-mile radius (Bureau of the Census 1990). Lake Erie, located about 2 miles west of the site, supplies drinking water to the Toledo area.

TIM Dump is underlain by about 100 feet of glacial till consisting predominantly of silty clay loam. The unconsolidated till is underlain by limestone (Kunkle 1971). Well logs from the area describe a variety of limestone, from blue to gray to brown (see Attachment A).

The climate of Lucas County is moderated by its proximity to Lake Erie. The average daily temperature is 49 °F. The lowest average daily temperature is 23 °F in January. The highest average daily temperature is 72 °F in July (USDA 1980).

The total annual precipitation for the county is 31 inches (USDA 1980). The mean annual lake evaporation for the area is 31 inches (DOC 1968). The heaviest 1-day, 24-hour rainfall from 1955 to 1975 was 4.34 inches in July 1969 (USDA 1980).

The prevailing wind is from the west-southwest at a maximum average wind speed of 11 miles per hour in April (USDA 1980).

2.2 SITE OPERATIONS AND HISTORY

Although the exact date that landfilling operations began at the site is unknown, the earliest documentation of such operations is dated March 1967 (Toledo 1967). Before 1973, Orville Bevel operated the Treasure Island and Manhattan Dumps (OEPA 1986). Tuber Dump was operated by Samuel Tuber (Tuber 1975). No operating records for the site are known to exist. However, indiscriminant dumping at the site before 1971 has been documented (ODNR 1971). Therefore, previous investigations indicate that both industrial and municipal wastes may have been disposed of at each of the landfills (see Section 2.3) (OEPA 1985 and 1986; U.S. EPA 1980 and 1981).

Dumping ceased at Treasure Island Dump in about 1968, at Manhattan Dump in about 1976, and at Tuber Dump, with the following exception, in about 1975 (E&E 1987; OEPA 1986; and Tuber 1975). William Paxton, the owner of the concrete recycling facility at the southern border of the site, reportedly illegally dumped construction debris in Tuber Dump for an unknown period of time until about 1990. During the reconnaissance visit, a site representative stated that the City of Toledo currently has a lawsuit pending against Mr. Paxton in regard to this illegal dumping.

The site consists of seven parcels of land deeded to the City of Toledo. The former Manhattan and Treasure Island Dumps are located on one parcel of land acquired by Toledo from William Elliott in 1976 (Toledo 1993a). The former Tuber Dump consists of six parcels of land acquired from Samuel Tuber in 1976, Michigan Central Railroad Company in 1973 and 1978, and Ann Arbor Railroad in 1981 (Toledo 1993b).

2.3 PREVIOUS INVESTIGATIONS

A preliminary assessment (PA) conducted by OEPA in 1986 for the Manhattan Dump states that the dump received about 2,000 cubic yards per day of wastes that included wood, rubber waste, household refuse, waste from service stations, industrial sludge and waste, car parts and tires, demolition materials, and alumina oxide powder. PAs for the Manhattan and Treasure Island dumps both state that underground chemical fires caused by incompatible wastes occurred on site in the early 1970s. According to the PAs, these fires burned for days (OEPA 1985 and 1986). However, the sources of this information are unknown. The PA for Manhattan Dump also states that leachate from

the landfill was observed entering a ditch, which flows to the Maumee River (OEPA 1986). In addition, a visual inspection conducted in 1989 identified leachate seeps and discolored snow on site (OEPA 1989).

In 1980, a Potential Hazardous Waste Site Identification form was filed as a result of a citizen complaint about chemical fires at the Manhattan Dump (U.S. EPA 1980). A CERCLA Notification of Hazardous Waste Site (103[c]) form was submitted by Owens-Illinois, Inc., Libbey Plant 27, a glass manufacturing plant operating about 1 mile southwest of the site since the late 1800s, for the Treasure Island Dump in 1981 (U.S. EPA 1981). This form lists unknown quantities of arsenic and heavy metals at the site. A PA conducted in 1985 and a site inspection (SI) conducted in 1987 for the site listed heavy metals, including arsenic, cadmium, chromium, and lead, and unspecified industrial wastes possibly disposed of on site (E&E 1987 and OEPA 1985). No samples were collected during the 1987 SI. According to site representatives, in 1991, the Toledo Department of Health and Environment sampled leachate seeping from the northeast corner of the former Tuber Dump fill area into the pond next to the fill's northern border.

3.0 SSI ACTIVITIES

This section outlines site reconnaissance observations and sampling locations and procedures at the TIM Dump site. Rationales for specific SSI activities are also provided in Section 3.2. The SSI was conducted in accordance with the U.S. EPA-approved SSIP dated February 26, 1993, and the U.S. EPA-approved generic quality assurance project plan (QAPjP) dated October 7, 1991. The U.S. EPA Potential Hazardous Waste Site Site Inspection Report form (Form 2070-13) for the TIM Dump site is provided in Appendix A. Photographs taken by PRC during the inspection activities are included in Appendix B.

3.1 SITE RECONNAISSANCE

PRC conducted a site reconnaissance at the TIM Dump site on January 26 and 27, 1993. The reconnaissance visit consisted of an interview with site representatives and a visual inspection.

The PRC field team, Jeanne Griffin of U.S. EPA; and Jeff Wander of OEPA conducted a walk-through inspection of the Treasure Island and Manhattan Dump portion of the site and the surrounding area on January 26, 1993. The following site representatives were also present during the site inspection: Alan Ruffell of the Toledo Department of Health and Environment, Lee Pfouts of the Toledo Pollution Control Division, and Mike Young of the Toledo Park District.

The PRC field team observed that the northeastern pond and the two drainage ditches along the western border of the site were covered with snow and ice. The two small western drainage ditches appeared to be connected in places and may be one ditch meandering beneath an old railroad easement. The storm sewer drainage ditch flowing through the center of the site was not frozen. Old tires, concrete blocks, bricks, metal, and old drums were scattered along and within the western drainage ditches and the storm sewer drainage ditch. Water in the western ditch was brownish. An oily sheen was also observed below the sewer drainage pipe outfall. About 30 feet north of the outfall, two apparent sink holes about 2 to 3 feet in diameter were observed. The southern portion of the former Treasure Island Dump along Ketcham Avenue is a picnic area and playground. Household rubbish was observed north of Ketcham Avenue near the western border of the site. Immediately northwest of the playground and picnic area, an area of open potholes and small mounds of soil was observed.

An elevated fill area is present in the center of the Manhattan Dump. The perimeter of the entire site is densely covered by brush and trees. A marshy area is present along the southern edge of the fill area. A petroleum pipeline marker was observed between the northeastern border of the fill area and the adjacent pond (see Figure 2). The site representatives explained that Sun Oil Company has an easement for an oil pipeline running north to south through the site.

Site representatives also explained that since the City of Toledo acquired the TIM Dump site property, a 6- to 12-inch-thick soil and clay cap was applied to all three dump areas. In 1980, the Toledo Edison Power Company received authorization to dump fly ash on the former Manhattan Dump area at the site. The fly ash was to be used as a base for the construction of a larger city park. During the 1987 SI, the Manhattan Dump was in the process of being covered with fly ash and landscaped (E&E 1987).

On January 27, 1993, the PRC field team and site representatives inspected the Tuber Dump portion of the site. Mr. Paxton's concrete recycling facility was observed immediately adjacent to the site's southern border. In an elevated fill area in the center of Tuber Dump, the PRC field team observed concrete, metal, asphalt, and wood. Mr. Paxton allegedly deposited the construction debris on top of the old Tuber Dump fill area. Ponded marshy areas were observed along the perimeters of the Tuber Dump. According to site representatives, in 1991, the Toledo Department of Health and Environment sampled leachate seeping from the northeast corner of the fill area into the pond next to the fill's northern border. Results of this leachate analysis were not provided by the site representatives. A monitoring well was also observed in the southeast corner of the fill area. The site representatives were unable to provide PRC with any information regarding this monitoring well. Subsequent investigations revealed that this monitoring well was installed by Midwest, a contractor to the State of Ohio, as part of the Parkway highway project (PRC 1993b).

Hiking trails and pathways were observed in wooded areas throughout the site. Site representatives stated that the site is used by nearby residents for recreational activities, including snowmobiling and motorcycling.

3.2 SAMPLING LOCATIONS AND PROCEDURES

On March 23 and 24, 1993, PRC collected one groundwater sample, six surface water samples, and nine sediment samples including one duplicate of surface water and sediment samples. The sampling locations are presented in Figure 3 and are summarized in Table 1. Sampling locations and collection procedures were in accordance with the U.S. EPA-approved SSIP, generic QAPjP, and applicable portions of PRC's standard operating procedures (SOP). PRC offered to split all samples with Alan Ruffell, site representative of the TIM Dump site. This offer was declined.

During the sampling investigation, the proposed sampling plan within the SSIP the for TIM Dump site submitted to U.S. EPA on February 26, 1993, was adhered to with the following exceptions. Duplicate samples (Samples No. SD-02D and SW-02D) were collected at SD-02 and SW-02. Sample No. SW-03, which the SSIP named as the surface water duplicate sample, was collected at the same location as Sample No. SD-03 within the pond in the northeast portion of the site.

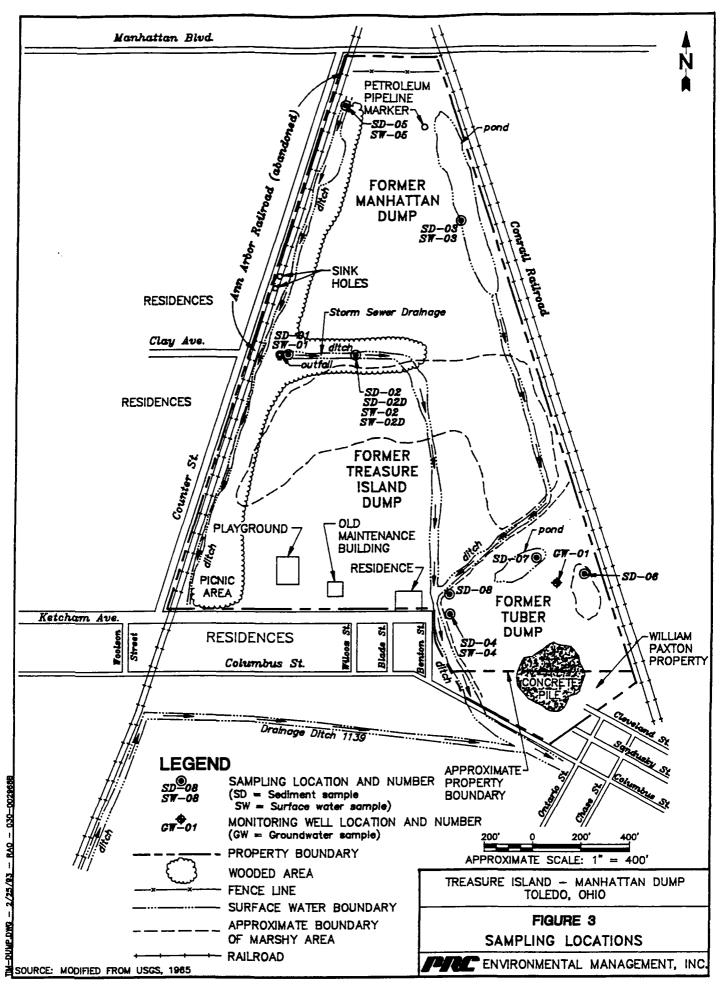


TABLE 1
SAMPLING SUMMARY

| SAMPLE MEDIUM | SAMPLE NUMBER ^a | LOCATION AND SAMPLING RATIONALE |
|----------------------------|-------------------------------|---|
| Groundwater | GW-01 | This sample was collected from an existing monitoring well located on the former Tuber Dump. This sample was collected to potentially identify hazardous substances deposited on site. |
| Surface Water and Sediment | SW-01 SD-01 | These background samples were collected near the storm sewer outfall to determine concentrations of contaminants attributable to storm sewer runoff. |
| | SW-02 SD-02 | These samples were collected from the drainage ditch to identify hazardous substances leaching from the landfill into the ditch. During the reconnaissance, a black discoloration, an oily sheen, and tire debris were observed in this area. |
| | SW-02D SD-02D | Duplicate samples of Samples No. SD-02 and SW-02D |
| | SW-03 SD-03 | These samples were collected from a pond on site. An OEPA on-site investigation states that leachate was observed seeping into the pond in this area (OEPA 1989). |
| | SW-04 SD-04 | These samples were collected from a potential wetland along the storm sewer drainage ditch near the western border of the former Tuber Dump area in order to determine if a release to the wetland has occurred. |
| | SW-05 SD-05 | These samples were collected from the headwaters of the drainage ditch located at the site's western border along Counter Street. |
| | SD-06 | This sample was collected from the eastern section of the former Tuber Dump area in a wetland in order to determine whether a release to the wetland has occurred. |
| | SD-07 | This sample was collected from a potential wetland next to the fill area in the former Tuber Dump. During the reconnaissance, a site representative stated that the Toledo Department of Health and Environment sampled leachate in this area. |

TABLE 1 (Continued)

SAMPLING SUMMARY

| SAMPLE MEDIUM | SAMPLE NUMBER ^a | LOCATION AND SAMPLING RATIONALE |
|------------------|-------------------------------|---|
| | SD-08 | This sample was collected from a potential wetland on site in the northwest corner of the former Tuber Dump site in order to determine if a release had occurred. |

Note: a Sample numbers assigned for identification are presented in Figure 3. Actual sample numbers were assigned in the field in accordance with the U.S. EPA-approved generic QAPjP dated October 7, 1991.

Samples No. SD-05 and SW-05 were collected in the northwest corner of the site, at the headwaters of the ditch meandering along the western boundary of the site.

Samples No. SD-05 and SW-05 were chosen as potential background sampling locations because no off-site areas similar to the site were located, as proposed in the SSIP. However, because sampling results indicate that this area is also influenced by on-site contaminants, the samples collected from this area cannot be considered background samples. Samples No. SD-04, SW-04, and SD-06 were moved to locations where wetland vegetation (cattails) were observed. Sample No. SD-08 was also in an area where cattails were observed. Samples from this area were collected to determine if a release to potential sensitive environments had occurred (see Figure 3).

Groundwater, surface water, and sediment sampling activities are discussed below.

3.2.1 Groundwater Sampling Activities

On March 24, 1993, PRC sampled one shallow groundwater monitoring well during the SSI to identify hazardous substances associated with the TIM Dump site that may have migrated to groundwater. This monitoring well was installed by Midwest as part of the Parkway Project and is located in the eastern portion of the former Tuber Dump. Also on March 24, 1993, Cynthia Dunlap and John Kuskal of Midwest arrived on site to unlock the monitoring well. The Midwest representatives measured the water level within the well, which was 14.05 feet from the top of the well casing. Well depth was measured at 25.95 feet. Prior to sampling, the well was purged of three well volumes using a Teflon bailer. The sample was collected with a bailer and poured into the sample containers. A field rinsate blank was collected by pouring laboratory-grade water into a decontaminated bailer and transferring the water to the sample containers.

The monitoring well is constructed of flush-joint, schedule 40 polyvinyl chloride (PVC). The well screen is 7 feet long and has 0.010-inch, machine-slotted openings. The annular space around the well screen is filled with Ottawa-Silica sand to a height of about 2 feet above the top of the screen. Hydrated sodium bentonite fills the remaining annular space to a depth of about 1 foot below existing grade. A locking protector pipe is installed into the concrete at the ground surface. This monitoring well was constructed on October 29, 1992 (see Photograph No. 11) (Midwest 1993).

3.2.3 Surface Water Sampling Activities

PRC collected four surface water samples, Samples No. SW-01, SW-02, SW-02D, and SW-04, on March 23, and two surface water samples, Samples No. SW-03 and SW-05, on March 24, 1993. With the exception of Sample No. SW-01, samples were collected by dipping sample containers between 0.25 to 0.50 inch below water surface. Sample No. SW-01 was collected directly from the edge of the storm water outfall (see Photograph No. 2). At the time of sampling, the outfall was about 2 inches above the water level of the storm sewer drainage ditch below (see Photograph No. 2). Sample No. SW-01 is a background sample, which was collected to determine the concentrations of contaminants attributable to off-site storm sewer runoff.

Sample No. SW-02 was collected along the southern bank of the storm sewer drainage ditch about 200 feet downgradient of Sample No. SW-01 (see Photograph No. 1). Sample No. SW-02D was collected as a duplicate for Sample No. SW-02. Sample No. SW-03 was collected on the western bank of the northeastern pond. An OEPA on-site investigation states that leachate was observed seeping in the pond in this area. Sample No. SW-04 was collected from a potential wetland on the eastern bank of the sewer drainage ditch near the western border of the former Tuber Dump (see Photograph No. 4). Cattails were observed about 8 feet north of the location from which Sample No. SW-04 was collected.

Sample No. SW-05 was collected in the far northwest corner of the site near the headwaters of the drainage ditch located at the site's western border along Counter Street (see Photograph No. 9). The sampling location was about 100 feet south of the north border of the site immediately east of an old railroad easement within the drainage ditch. Because of its remote location, Sample No. SW-05 was to be considered a background sample. However, sample results indicate that contaminants from the site have influenced the area from which this sample was collected.

3.2.4 Sediment Sampling Activities

PRC collected four sediment samples, Samples No. SD-01, SD-02, SD-02D, and SD-04, on March 23, and five sediment samples, Samples No. SD-03, SD-5, SD-6, SD-07, and SD-08, on March 24, 1993. All samples were collected from surface water bodies using decontaminated

stainless steel scoops, spoons, and bowls. Sample No. SD-01 is a background sample collected along the south bank of the storm sewer ditch about 15 feet southeast of the storm sewer outfall (see Photograph No. 3). This sample was collected to determine concentrations of contaminants attributable to off-site storm water runoff. Sample No. SD-02 was collected along the southern bank of the storm sewer drainage ditch about 200 feet downgradient of where Sample No. SD-01 was collected (see Photograph No. 1). Sample No. SD-02D was collected as a duplicate for Sample No. SD-02. Sample No. SD-03 was collected on the western bank of the northeastern pond. An OEPA on-site investigation states that leachate was observed seeping in the pond in this area. Sample SD-04 was collected from a potential wetland on the eastern bank of the sewer drainage ditch near the western border of the former Tuber Dump (see Photograph No. 4). Cattails were observed about 8 feet north of the Sample No. SD-04 sampling location.

An OEPA on-site investigation states that leachate was observed seeping in the pond in this area. Sample No. SD-05 was collected from the far northwest corner of the site, near the headwaters of the drainage ditch located at the site's western border along Counter Street. The sampling location from which Sample No. SD-05 was collected is about 100 feet south of the north border of the site, immediately east of an old railroad easement, within the drainage ditch about 50 feet south of the location from which Sample No. SW-05 was collected (see Photograph No. 10). Because of its remote location, Sample No. SD-05 was to be a background sample. However, sample results indicate that contaminants from the site have influenced this area.

Sample No. SD-06 was collected about 15 feet off shore in the northeast portion of the pond located in the southeast corner of the site (see Photograph No. 6). This pond is delineated as a wetland on the national wetlands inventory map (DOI 1977). A "floating cattail island" was observed in the southern portion of this pond. Sample No. SD-07 was collected from a pond next to the northern border of the former Tuber Dump fill area. Wetland vegetation (cattails) were observed about 20 feet west of this sampling location (see Photograph No. 5). During the reconnaissance, a site representative stated that the Toledo Department of Health and Environment sampled a leachate seep in this area about 1.5 years prior to this investigation. Sampling results for the leachate seep were not available. Sediment east of Sample No. SD-07's sampling location contained many small rocks and other debris such as wood and metal. Sample No. SD-08 was collected from a potential wetland area in the northwest corner of the former Tuber Dump area (see Photograph No. 7). This area is

located near the confluence of the storm sewer drainage ditch and the drainage ditch that flows along the eastern border of the site. Large amounts of concrete and metal rubble were observed in this area.

4.0 ANALYTICAL RESULTS

All samples collected during the SSI were analyzed through the U.S. EPA Contract Laboratory Program (CLP). The laboratories analyzed the samples for U.S. EPA Target Compound List (TCL) volatile organic compounds (VOC), extractable semivolatile organic compounds (SVOC), pesticides, and polychlorinated biphenyls (PCB). The samples were also analyzed for Target Analyte List (TAL) inorganic substances (metals and cyanide). All data were reviewed by U.S. EPA Region 5 for compliance with the terms of the CLP. PRC added and deleted laboratory qualifiers based on the U.S. EPA data review narrative. The laboratory groundwater, surface water, and sediment sample results are summarized in Tables 2 and 3.

The concentrations of substances detected in the environmental samples were compared with background concentrations to determine which substances may have been released from the site. Several substances were detected at elevated concentrations and are highlighted as significant results in Tables 2 and 3.

A result was considered significant if the substance in question was detected significantly above the background level and was above the sample-specific contract-required quantitation limit or detection limit (CRQL or CRDL, respectively). Sample-specific CRQLs and CRDLs are determined by adjusting the CRQL or CRDL for percent solids and dilution factors for the sample. Groundwater, surface water, and sediment sampling results are discussed below.

4.1 GROUNDWATER SAMPLING RESULTS

Groundwater sampling results do not clearly indicate that hazardous substances attributable to waste disposal activities are present in groundwater in the vicinity of the monitoring well. Because groundwater is present at about 10 feet below ground surface on site, the groundwater sample was

TABLE 2
SUMMARY OF SURFACE WATER AND GROUNDWATER SAMPLE ANALYSES

| SUMMANT OF SURFACE WATE | II AND C | 1 | | | | | red Liter | | T | r == - | |
|--|----------|------------|-----------|------------|------------|----------|-----------|----------|----------|----------|----------|
| Sampling Location | | TI-SW01 | TI-SW02 | TI-SW02D | | TI-SW04 | TI-SW05 | TI-TB01 | TI-GW01 | TI-TB02 | TI-FB01 |
| Date | | 03/23/93 | 0 3/23/93 | 03/23/93 | 03/24/93 | 03/23/93 | 03/24/93 | 03/23/93 | 03/24/93 | 03/24/93 | 03/24/93 |
| Time | | 1330 | 1230 | 1230 | 1300 | 1430 | 1400 | 1400 | 1200 | 1300 | 1245 |
| Organic Traffic Report No. | | ETF 19 | ETF 20 | ETF 21 | ETF 16 | ETF 22 | ETF 17 | ETF 27 | ETF 18 | ETF 34 | ETF 33 |
| Inorganic Traffic Report No. | | MERS 84 | MERS 85 | MERS 86 | MERS 92 | MERS 87 | MERS 93 | N/A | MERS 98 | N/A | MESF 85 |
| Notes | | S.W. BACK- | SURFACE | DUPLICATE | SURFACE | SURFACE | SURFACE | TRIP | GROUND | TRIP | FIELD |
| | | GROUND | WATER | OF TI~SW02 | WATER | WATER | WATER | BLANK | WATER | BLANK | BLANK |
| VOLATILE ORGANIC COMPOUNDS | CRQL | | | | | | | | | | |
| methylene chloride | 10 | 1J | 1J | 1J | ND | 2J | ND | ND | ND | ND | ND |
| chloroform | 10 | 2J | 1J | 1J | ND | ND | ND | ND | ND | ND | ND |
| bromodichloromethane | 10 | 1 <u>J</u> | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| Tentatively Identified Compounds (Total) | N/A | ND | ND | 9J | ND | ND | ND | ND | 13J | ND | ND |
| SEMIVOLATILE ORGANIC COMPOUNDS | CRQL | | | | | | | | | | |
| di-n-butylphthalate | 10 | ND | ND | ND | ND | ND | ND | | 1J | | ND |
| butylbenzylphthalate | 10 | ND | ND | ND | ND | ND | ND | | 2J | | ND |
| Tentatively Identified Compounds (Total) | N/A | 8,1 | 38J | 6J | 39J | 552J | 43 | | 38J | | ND |
| PESTICIDE/PCB COMPOUNDS | CRQL | | | | | | | | | | |
| dieldrin | 0.10 | ND | .0015JP | ND | ND | ND | ND | | ND | | ND |
| 4,4'-DDE | 0.10 | .0024JP | .0023J | ND | ND | ND | ND | | .0078J | | ND |
| gamma-chlordane | 0.05 | .0022JP | ND | .0019JP | ND | ND | ND | | ND | | ND |
| ANALYTE DETECTED | CRDL | | | | | | | | | | |
| aluminum | 200 | 231* | 509* | 509* | 526* | 203* | 404* | | 154B* | | 122B* |
| arsenic | 10 | ND | ND | ND | ND | ND | 21.3S | | 14.5 | | ND |
| barium | 200 | 39.7B | 43.2B | 40.3B | 19.0B | 182B | 39.7B | | 596 | | ND |
| cadmium | 5 | ND | ND | ND | ND | ND | 2.6B | | ND | | ND |
| calcium | 5,000 | 66900 | 43000 | 41600 | 32600 | 58300 | 53700 | | 232000 | | 585B |
| cobalt | 50 | ND | ND | ND | ND | ND | ND | | 6.1B | | ND |
| copper | 25 | 3.1B | 6.2B | 6.8B | 14.9B | 4.7B | 11.4B | | ND | | ND |
| iron | 100 | 215* | 537* | 558* | 731* | 364* | 577* | | 8040* | | 22.4B* |
| lead | 3 | 2.8BWJ | 10.3J | 15.5J | 11.8J | 16.5SJ | 4.2J | | ND | | ND |
| magnesium | 5,000 | 19400 | 14700 | 13900 | 9360 | 46600 | 13800 | | 134000 | | ND |
| manganese | 15 | 33.6 | 41.6 | 41.7 | 53.1 | 76.6 | 116 | | 1840 | | 2.1B |
| potassium | 5,000 | 2410B | 4860B | 4350B | 2920B | 28100 | 4740B | | 33500 | | ND |
| sodium | 5,000 | 51900 | 32200 | 31100 | 9480 | 64600 | 18600 | | 98300 | | 1650B |
| thallium | 10 | ND | ND | ND | ND | ND | ND | | 14.9W | | ND |
| vanedium | 50 | ND | 5.2B | ND | ND | ND | ND | | 4.7B | | ND |
| zinc | 20 | 12.3B | 27.5 | 32.9 | 24.6 | 90.1 | 15.7B | | ND | | ND |

TABLE 2 (continued) SUMMARY OF SURFACE WATER AND GROUNDWATER SAMPLE ANALYSES

Notes:

All concentrations are in micrograms per liter (µg/L) unless otherwise noted.

XXX = Significant result

CRQL = Contract-required quantitation limit

CRDL = Contract-required detection limit

ND = Not detected

N/A = Not applicable

-- = Not analyzed

| GENERAL QUALIFIERS | DEFINITION | ANALYTICAL BIAS |
|---------------------|---|-------------------------------|
| J | Value is estimated (also indicates a compound that is detected | May be high, low, or unknown. |
| | below the sample - specific CRQL), | |
| COMPOUND QUALIFIERS | DEFINITION | ANALYTICAL BIAS |
| P | Variance between GC columns was greater than 25 percent in | Unknown |
| | pesticide or Aroclor (PCB) analyses. The lower value is reported. | |
| ANALYTE QUALIFIERS | DEFINITION | ANALYTICAL BIAS |
| В | Value is below the sample - specific CRDL. | Unknown |
| W | Furnace AA post-digestion spike recovery values were outside | May be high or low. |
| | of control limits. | |
| | Duplicate relative percent difference values were outside of | Unknown |
| | control limits. | |
| S | Analyte concentration was determined by Method of | None |
| | Standard Additions (MSA). | |

TABLE 3
SUMMARY OF SEDIMENT SAMPLE ANALYSES

| Sampling Location | F LL ANA | TI-SD01 | TI-SD02 | TI-SD02D | TI CDCC | TI-SD04 | TI ODGE | TI CDCC | TI ODGT | TI ODGG |
|----------------------------------|----------|----------|----------|------------|---------------------------------------|----------|----------|----------|----------|----------|
| | | ! | | | · · · · · · · · · · · · · · · · · · · | | TI-SD05 | TI-SD06 | TI-SD07 | TI-SD08 |
| Date . | | 1330 | 1230 | 1230 | 1300 | 1430 | 1415 | 1045 | 1015 | 1130 |
| Time | - | 03/23/93 | 03/23/93 | 03/23/93 | 03/24/93 | 03/23/93 | 03/24/93 | 03/24/93 | 03/24/93 | 03/24/93 |
| Organic Traffic Report No. | | ETF 23 | ETF 24 | ETF 25 | ETF 28 | ETF 26 | ETF 29 | ETF 30 | ETF 31 | ETF 32 |
| Inorganic Traffic Report No. | | MERS 88 | MERS 89 | MERS 90 | MERS 99 | MERS 91 | MERS 94 | MERS 95 | MERS 96 | MERS 97 |
| Notes | | BACK- | | DUPLICATE | | | | | | |
| | | GROUND | | OF 11-SD02 | | | | | | |
| VOLATILE ORGANIC COMPOUNDS | CRQL | | | | | | | | | |
| chloroform | 10 | 2J | 3.J | 3J | ND | 3J | 3J | ND | ND | 5J |
| toluene | 10 | ND | ND | ND | ND | ND | ND | ND | ND | 6J |
| SEMIVOLATILE ORGANIC COMPOUNDS | CRQL | İ | | | | | | | | |
| phenol | 330 | ND | 110J | ND | ND | ND | ND | ND | 110J | ND |
| 2-methylphenol | 330 | ND | 63J | ND | ND | ND | ND | ND | ND | ND |
| 4-methylphenol | 330 | 250J | 140J | ND | ND | ND | 170J | 410J | ND | 750J |
| 2,4-dimethylphenol | 330 | ND | 100J | ND | ND | ND | ND | ND | ND | ND |
| naphthalene | 330 | 82J | 190J | ND | 230J | ND | ND | ND | ND | ND |
| 2-methylnaphthalene | 330 | 73J | 210J | ND | 280J | 110J | ND | ND | ND | ND |
| acenaphthylene | 330 | ND | 89J | ND | ND | ND | ND | ND | ND | ND |
| acenaphthene | 330 | 380J | 760 | 360J | 74J | 170J | ND | ND | ND | 130J |
| dibenzofuran | 330 | 180J | 630 | ND | 120J | ND | ND | ND | ND | ND |
| fluorene | 330 | 410J | 840 | 420J | 68J | 190J | ND | ND | ND | 150J |
| n-nitrosodiphenylamine | 330 | 110J | ND | ND | ND | ND | ND | ND | ND | ND |
| phenanthrene | 330 | 900 | 7500D | 5500 | 810 | 1600 | 250J | 110J | 110J | 1700 |
| anthracene | 330 | 930 | 1900 | 1200J | 190J | 380J | 130J | ND | ND | 350J |
| carbazole | 330 | 350J | 1100 | 560J | 100J | 140J | ND | ND | ND | 270J |
| di-n-butylphthalate | 330 | 58J | 85J | ND | 71J | ND | ND | ND | ND | 120J |
| fluoranthene | 330 | 4000D | 10000D | 8000 | 1100 | 2100 | 570J | 140J | 170J | 2900 |
| pyrene | 330 | 8500D | 12000D | 10000 | 1100 | 2900J | 580J | 110J | 140J | 2000 |
| butylbenzylphthalate | 330 | 250J | ND | 350J | ND | 81J | ND | ND | ND | ND |
| benzo(a)anthracene | 330 | 3500D | 7700D | 6100 | 810 | 1500J | 500J | 82J | 89J | 1500 |
| chrysene | 330 | 2700 | 5600D | 4500 | 670 | 1100J | 640J | 93J | 85J | 1300 |
| bis(2-ethylhexyl)phthalate | 330 | ND | ND | ND | 89J | ND | 140J | 100J | 100J | 130J |
| di-n-octylphthalate | 330 | 120J | 62J | ND | ND | ND | 91J | ND | ND | ND |
| benzo(b)fluoranthene | 330 | 5800DX | 9500DX | 11000X | 1000 | 2200X | 1000X | 180JX | 150JX | 2400X |
| benzo(k)fluoranthene | 330 | 5800DX | 9500DX | 11000X | 1100 | 2200X | 1000X | 180JX | 150JX | 2400X |
| benzo(a)pyrene | 330 | 3200 | 4100DJ | 5400 | 460J | 890J | 390J | 79J | 67J | 990 |
| indeno(1,2,3-cd)pyrene | 330 | 2000 | 1000DJ | 4900 | 510J | 460J | 360J | ND | ND | 640J |
| dibenzo(a,h)anthracene | 330 | 720 | 1200 | 460J | 250J | 77J | 110J | ND | ND | 280J |
| benzo(g,h,i)perylene | 330 | 2100 | 4000 | 4000 | 500J | 180J | 310J | ND | ND | 670J |
| Tentatively Identified Compounds | N/A | 14030J | 62970J | 44200J | 6210J | 27310J | 22350J | 18660J | 15690J | 20640J |

TABLE 3 (continued)
SUMMARY OF SEDIMENT SAMPLE ANALYSES

| Sampling Location | | TI-SD01 | TI-SD02 | TI-SD02D | TI-SD03 | TI-SD04 | TI-SD05 | TI-SD06 | TI-SD07 | TI-SDO |
|--------------------------|-------|---------|---------|------------|---------|---------|---------|---------|---------|-------------------|
| Notes | | BACK- | | DUPLICATE | | | | | | |
| | | GROUND | | OF TI-SD02 | | | | | | |
| PESTICIDES/PCB COMPOUNDS | CRQL | | | | | | | | | |
| alpha-BHC | 1.7 | ND | ND | ND | ND | ND | ND | .18JP | ND | ND |
| heptachlor epoxide | 1.7 | 1.4JP | ND | ND | ND | 1.6JP | 1.1JP | ND | ND | ND |
| dieldrin | 3.3 | 3.1JP | 25P | 50P | ND | 1.2JP | 2.3JP | ND | ND | 1.1JP |
| 4,4'-DDE | 3.3 | 3.6JP | ND | 1.3JP | 480PC | 3.3JP | 45 | 78PC | 430PC | 7.2JP |
| endrin | 3.3 | .73JP | 5.4JP | 17 | ND | .59JP | ND | ND | ND | 2.9J |
| endosulfan li | 3.3 | ND | 1.1JP | 3.0JP | ND | .64JP | ND | ND | ND | ND |
| 4,4'-DDD | 3.3 | 19P | 4.1JP | 6.6P | 270 | ND | 14 | 12 | 14JP | 47 |
| endosulfan sulfate | 3.3 | .51JP | ND | ND | ND | ND | ND | ND | ND | ND |
| 4,4'-DDT | 3.3 | 14P | 11P | 18P | 250C | 28P | 35P | 27 | 280C | 45P |
| methoxychlor | 17.0 | 12JP | 50P | 120P | 18JP | 24JP | 23JP | 5.4JP | 26JP | 11JP |
| endrin ketone | 3.3 | 8.9P | 12P | ND | 7.6JP | 11P | ND | ND | ND | ND |
| alpha-chlordane | 1.7 | 5.9P | 11 | 15 | ND | 2.2JP | ND | ND | ND | 1.4JP |
| gamma-chlordane | 1.7 | 11 | 16P | 34P | ND | 6.4P | ND | ND | ND | 2.4JP |
| ANALYTE DETECTED (mg/kg) | CRDL | | | | | | | | | |
| aluminum | 40 | 6770J | 13900J | 16500J | 9910J | 9940J | 10400J | 12900J | 14000J | 6140. |
| arsenic | 2 | 6.2N* | 69.3SN* | 104SN* | 21.6SN* | 5.7N* | 30.5N* | 8.7N* | 8.5N* | 5.1N ⁴ |
| barium | 40 | 130 | 397 | 464 | 73B | 139 | 73.3B | 81.7 | 71.6 | 245 |
| beryllium | 1 | .39B | .71B | .81B | .92B | .46B | .66B | .66B | .75B | ND |
| cadmium | 1 | ND | 13.8 | 17.8 | ND | ND | 1.7EB | 1.5EB | ND | ND |
| calcium | 1,000 | 50500J | 31000J | 32500J | 7090J | 10000J | 19200J | 4470E | 5550J | 22800 |
| chromium | 2 | 16.4* | 52.5* | 78.9* | 21.1* | 15.8* | 19.7* | 20.5* | 22.2* | 11.2* |
| cobalt | 10 | 5.6B | 12B | 15.2B | 10.6JB | 5,1B | 11.6B | 10.5B | 10.5 | ND |
| copper | 5 | 42.4J* | 172J* | 189J* | 160J* | 19.4J* | 42.3J* | 360J* | 29.4J* | 24.1J |
| iron | 20 | 15600E* | 40500E* | 44000E* | 38300E* | 14400E* | 19600E* | 18100E* | 19800E* | 9310E |
| lead | 0.6 | 218 | 1040 | 947 | 114W | 178 | 55.9 | 209 | 42.8 | 482 |
| magnesium | 1,000 | 18600 | 11700 | 12300 | 2950 | 4760 | 10400 | 3880 | 4530 | 7700 |
| manganese | 3 | 316J* | 608J* | 614J* | 319J* | 193J* | 172J* | 325J* | 286J* | 164J |
| mercury | 0.1 | ND | .50 | .46 | ND | ND | ND | ND | ND | .50 |
| nickel | 8 | 17.5 | 53.5 | 60.5 | 22.6 | 13.6B | 19.3B | 17.6 | 23.8 | 3.8B |
| potassium | 1,000 | 1370B | 2660 | 3500 | 1400B | 1770B | 2440B | 2600 | 3270 | 1160 |
| selenium | 1 | .72B | ND | .57B | 1.1B | ND | 1.5B | ND | ND | .57B |
| sodium | 1,000 | 387B | 438B | 686 | 323B | 454B | 352B | 231B | 259B | 605E |
| thallium | 2 | ND | 1.1B | 1.2B | 1.1B | ND | ND | .45B | .57BW | ND |
| vanadium | 10 | 18.9 | 35.5 | 43.4 | 25.6 | 26.1 | 26.1B | 31.1 | 32.2 | ND |
| zinc | 4 | 255J | 952J | 1160J | 147J | 283J | 482J | 149J | 92.1J | 617J |

TABLE 3 (continued) SUMMARY OF SEDIMENT SAMPLE ANALYSES

Notes

All concentrations are in micrograms per kilogram (µg/kg) unless otherwise noted.

CRQL = Contract-required quantitation limit. The listed CRQLs assume 100% solids concentration in the sample. Sample-specific CRQLs are determined by dividing the listed value by the actual percent solids concentration in the sample (and, if applicable, multiplying by dilution factors).

CRDL = Contract-required detection limit. The listed CRDLs assume 100% solids concentration in the sample. Sample-specific CRDLs are determined by dividing the listed value by the actual percent solids concentration in the sample (and, if applicable, multiplying by dilution factors).

XXX. = Significant result

ND = Not detected N/A = Not applicable -- = Not analyzed

| GENERAL QUALIFIERS | DEFINITION | ANALYTICAL BIAS |
|---------------------|---|---|
| J | Value is estimated (also indicates a compound that is detected | May be high, low, or unknown. |
| | below the sample-specific CRQL). | |
| COMPOUND QUALIFIERS | DEFINITION | ANALYTICAL BIAS |
| P | Variance between GC columns was greater than 25 percent in | Unknown |
| | pesticide or Aroclor (PCB) analyses. The lower value is reported. | |
| C | Identity of pesticide/PCB compound was confirmed by GC/MS. | None |
| D | Compound was identified at a secondary dilution factor. | None |
| x | Result cannot be confirmed by CLP protocols - compound may or | Unknown (value is unusable). |
| | may not be present. | |
| ANALYTE QUALIFIERS | DEFINITION | ANALYTICAL BIAS |
| В | Value is below the sample-specific CRDL. | Unknown |
| _ | | |
| E | Value is estimated due to matrix interferences. | Unknown |
| E N | Matrix spike percent recovery values were outside of control limits. | May be high or low. |
| E <u>N</u> W | | |
| E N W | Matrix spike percent recovery values were outside of control limits. | May be high or low. |
| E <u>N</u> W | Matrix spike percent recovery values were outside of control limits. Furnace AA post-digestion spike recovery values were outside | May be high or low. |
| E <u>N</u> W | Matrix spike percent recovery values were outside of control limits. Furnace AA post-digestion spike recovery values were outside of control limits. | May be high or low. May be high or low. |
| E <u>N</u> W | Matrix spike percent recovery values were outside of control limits. Furnace AA post-digestion spike recovery values were outside of control limits. Duplicate relative percent difference values were outside of | May be high or low. May be high or low. |

collected to aid in the identification of on-site contaminants. Because TCL organic substances are not naturally-occurring, elevated concentrations of organic compounds in the groundwater sample could identify site-related contaminants. However, no organic substances other than tentatively-identified compounds (TIC) were detected at significant concentrations.

Elevated concentrations of many inorganic substances, including arsenic, barium, calcium, iron, magnesium, manganese, potassium, sodium, and thallium were detected in the groundwater sample and may be attributable to site activities. However, these substances are naturally-occurring, and no background groundwater sample was collected. Therefore, inorganic substances in the sample cannot be attributed to the site. No background sample was collected because no upgradient monitoring wells exist. In addition, no residential wells exist in the area of the site because all residents are served by municipal water supply from Lake Erie.

4.2 SURFACE WATER SAMPLING RESULTS

Analytical results of surface water samples indicate that potassium and zinc have been released to the on-site storm sewer drainage ditch and that arsenic and manganese have been released to the drainage ditch on the northwest corner of the site. Significant findings for surface water sample analyses include arsenic and manganese in Sample No. SW-05 and potassium and zinc in Sample No. SW-04. These analytes are attributable to the site because the contaminant concentrations are significantly above background levels and sample-specific CRDLs. Also, a CERCLA Notification of Hazardous Waste Site (103[c]) form and a PA form indicate that arsenic and heavy metals were deposited at the site (U.S. EPA 1981; OEPA 1985). No organic compounds other than TICs in Sample No. SW-04 were detected at elevated concentrations. Because the identity of TICs cannot be confirmed, they are not considered significant findings.

PRC added "J" qualifiers to the laboratory analytical results for lead in all samples because the U.S. EPA QA/QC data review narrative states that these results were estimated because the relative percent difference of the field duplicates (Samples No. SW-02 and SW-02D) was out of the acceptable range. A "W" qualifier was added to the lead result for Sample No. SW-01 because the U.S. EPA data review narrative states that the result should be flagged because of interference. The bias of the data cannot be determined because the raw data for the Furnace AA post-digestion spike recovery were not

provided by the laboratory. Although the lead data is qualified, it is possible that lead has been released from the site because concentrations in downgradient samples are significantly above the background level.

4.3 SEDIMENT SAMPLING RESULTS

Analytical results of sediment samples indicate that two SVOCs, six pesticides, and five metals have been released from the TIM Dump site to surrounding ditch and wetlands. Significant findings for sediment sample analyses include dibenzofuran in Sample No. SD-02, endrin and gamma-chlordane in Sample No. SD-02D, and phenanthrene, dieldrin, methoxyclor, barium, cadmium, chromium, lead, mercury, and nickel in Samples No. SD-02 and SD-02D. In addition, elevated concentrations of 4,4'-DDE were detected in Samples No. SD-03, SD-05, SD-06, and SD-07, 4,4'-DDD was elevated in Sample No. SD-03, and 4,4'-DDT was elevated in Samples No. SD-03, SD-07, and SD-08. These substances are attributable to the site because the contaminant concentrations are significantly above background levels and sample-specific CRQLs and CRDLs. Also, the CERCLA Notification of Hazardous Waste Site (103[c]) form indicates that heavy metals were deposited at the site (U.S. EPA 1981).

PRC added the "J" qualifier to all pesticide results in Table 3 to indicate that the pesticide results are estimated. The qualifier was added because the U.S. EPA data review narrative states that surrogate recoveries were above acceptable limits and the data is biased high as a result. Although reported pesticide results are overestimated, the highlighted results are considered significant because these concentrations are equal to or exceed ten times the background levels. Because the concentrations in downgradient samples are significantly above background levels, these pesticides are attributable to the site. Analytical results indicate that discarded pesticide products may have been deposited at the site.

PRC deleted the "*" qualifier from the laboratory's reported results for aluminum, lead, and zinc because the U.S. EPA narrative states that relative percent difference (RPD) values for duplicates were within acceptable limits. In addition, PRC added the "J" qualifier to aluminum, calcium, copper, manganese, and zinc results because of interference and poor precision, as reported in the U.S. EPA narrative.

Barium, cadmium, chromium, lead, mercury, and nickel were detected at elevated concentrations in Samples No. SD-02 and its duplicate, Sample No. SD-02D. The chromium results were flagged with the "*" qualifier because the RPD between these two field duplicate sample results is higher than the acceptable limit. PRC is considering these results significant because the samples were not homogenous, and varying grain sizes may be responsible for the high RPD.

PRC added the "J" qualifier to laboratory analytical results for cobalt in Sample No. SD-03 because the U.S. EPA narrative states that the result was estimated because of contamination. The "J" qualifier was also added to cadmium results for Samples No. SD-06 and SD-07 because of contamination.

5.0 PATHWAYS

This section discusses the groundwater migration, surface water migration, soil exposure, and air migration pathways.

5.1 GROUNDWATER MIGRATION PATHWAY

Groundwater in the area may be affected because no record indicates that a liner was ever installed on site. The one monitoring well sample collected during the SSI does not indicate that a release to groundwater has occurred because no background sample could be collected. However, drinking water is supplied to the population within 4 miles of the site by municipal surface water intakes in Lake Erie (OEPA 1990). Several private well logs from the area were discovered (see Attachment A). However, no drinking water wells screened in the upper aquifer are known to be currently in use in the City of Toledo (PRC 1993d). Two drinking water wells screened at least 100 feet below ground surface in the bedrock aquifer are currently in use in the City of Toledo. One well is located at a home about 6 miles southwest of the site and one is located at Collingwood Water Bottling Company (Collingwood) located about 3 miles west of the site (PRC 1993d). Collingwood's well is screened at 675 feet below ground surface. The well water is tested daily by Collingwood and weekly by the County Department of Health. Collingwood filters its water to remove solid minerals and ozonates the bottled water to kill bacteria. The bottled water is sold to about 7,000 clients in

Toledo and the surrounding areas (PRC 1993e). Industrial wells are also known to exist in the City of Toledo (PRC 1993f).

5.2 SURFACE WATER MIGRATION PATHWAY

A release to the on-site storm sewer ditch, the wetland on the southeast corner of the site, and other potential wetland areas on site has been confirmed by chemical analysis of surface water and sediment samples. Significant findings are discussed in Section 4.0 and include heavy metals in the storm sewer ditch sediment and metals and pesticides in potential wetland surface waters and sediments. Because no liner, leachate collection system, maintained engineered cover, or functional and maintained run-on control system and runoff management system are present on site, and because hazardous substances have been detected above background levels, contaminants appear to have migrated from the disposal areas into nearby surface water bodies.

Targets of on-site surface water and sediment contamination include wetlands that have either been identified as such by the U.S. Department of the Interior (DOI) or have been preliminarily identified by PRC. The marshy area on the southwest corner of the site where Sample No. SD-06 was collected has been delineated as a vegetated wetland (DOI 1977) and PRC observed cattails along the drainage ditches at sample locations SD-04 and SD-08 and in the ponded area at sample location SD-07. The vegetation adjacent to the open pond near sample location SD-03 was not obviously wetland-dependent, and wetland vegetation was not evident at sample location SD-05.

Additional targets of on-site surface water and sediment contamination include three federal endangered and 13 state endangered bird species that utilize inland waterways and wetlands during spring and fall migrations (PRC 1993c). Three of these species are also federally endangered (ODNR 1993). Although these species have not been observed at the site, they are known to occur in Toledo. TIM Dump site can provide appropriate habitat, and therefore these species are likely to use the on-site ditch and wetlands. Also, potential targets include 16 frontage miles of wetlands along North Maumee Bay and Lake Erie about 5 to 9 and 10 to 13 miles, respectively, downstream of the site.

The on-site storm sewer ditch is known to flow continuously and converges with intermittent Drainage Ditch 1139 about 200 feet south of the site (Toledo 1993c). Drainage ditch 1139 flows

underground at Columbus and Ontario Streets and enters the Maumee River about 1 mile downstream of the site. The Maumee River, which flows northeastward, is a large river with a flow rate of 5,000 cubic feet per second (OEPA 1990). The Maumee River flows into the Maumee Bay of Lake Erie about 3 miles downstream of its confluence with Drainage Ditch 1139.

Targets of potential contamination from the TIM Dump site included the 464,000 people served by the city of Toledo drinking water intake and 25,000 people served by the City of Oregon drinking water intake, both located about 14 miles downstream of the site in Lake Erie (OEPA 1990). Potential targets also include fisheries in the Maumee River and Lake Erie. The Maumee River is used for sport fishing only. Between 1975 and 1987, the total average walleye and white bass catch in the Maumee River was 95,793 fish per year. Lake Erie is used for both sport and commercial fishing. Between 1983 and 1986, the average fish harvest for sport anglers in Maumee Bay and in the area about 10 miles offshore was 836,141 fish per year. Between 1983 and 1986, the average commercial fish harvest in this portion of Lake Erie was 452,432 fish per year. Therefore, the total average harvest for Lake Erie within approximately 15 miles downstream of the site is 1,288,573 fish per year (OEPA 1990).

Additional targets of potential contamination downstream of the TIM Dump site include the Cedar Point National Wildlife Refuge about 10 miles downstream of the site in Lake Erie and the Erie State Game Area about 6 miles downstream of the site in North Maumee Bay (USGS 1965 and 1967).

5.3 SOIL EXPOSURE PATHWAY

Although facility files indicate that a 6- to 12-inch-thick soil and clay cap covers the fill areas of the site, areas of uncovered waste material were observed during the SSI. Therefore, the possibility of surface soil contamination exists. Nearby populations may easily come in contact with on-site soils because facility access is restricted only by a partial fence along the northern border of the site.

Also, a city park, including a picnic area and playground, is located in the former Treasure Island Dump area, and a residence exists on site near the intersection of Ketcham Avenue and Benton Street. Hiking trails and pathways are used by area residents for recreational activities.

5.4 AIR MIGRATION PATHWAY

No odors, airborne particulates, or sources that would be likely to cause a release to air were noted during the investigation. In addition, the site is well vegetated minimizing the potential for a release to air. A PA prepared for the former Treasure Island Dump in 1985 states that underground fires, resulting from incompatible wastes, occurred on site in the past (OEPA 1985). Also, a PA prepared for the former Manhattan Dump in 1986 states that underground fires occurred on site in the 1970s. These fires were reportedly caused by the dumping of alumina oxide powder (OEPA 1986). Therefore, a release to air may have occurred during the on-site fires in the 1970s. Because no air sampling was conducted and the current potential for detecting an air release is low, no releases to air are anticipated to be documented for the TIM Dump site.

REFERENCES

- Bureau of the Census. 1991. Census of Population and Housing. P.L. 94-17 (Data) Ohio (Machine-Readable Data File). Washington, DC.
- Ecology and Environment, Inc. (E&E). 1987. "Site Inspection (SI) Report for Treasure Island Landfill." June 12.
- Federal Emergency Management Agency (FEMA). 1980. Flood Insurance Rate Map for the City of Toledo, Ohio. Community Panel Number 395373 0015A. June 4.
- Findbeiner, Pettis & Strout, Ltd. (FPS). 1984. "Detwiler Creek Comprehensive Ditch Plan."
- Kunkle, George R. 1971. "Report of Investigation, Ground-Water Site Survey-2020 Manhattan Boulevard Toledo, Ohio." May 10.
- Midwest Environmental Consultants, Inc. (Midwest). 1993. Letter Regarding a Monitoring Well Located on Site in the Former Tuber Dump Area. From Michael J. Momenee, Investigations Group Manager. To Kristine Kruk, PRC Environmental Management, Inc. (PRC). March 10.
- Ohio Department of Natural Resources (ODNR). 1971. "Report of Investigation Regarding Manhattan Dump as a Proposed Solid Waste Disposal Site." Prepared by Chris P. Cunningham, Geologist. June 4.
- ODNR. 1993. Facsimile Regarding Endangered and Threatened Species in Toledo, Ohio. From Jerry Gallant, Biologist. To Kristine Kruk, PRC. January 13.
- Ohio Environmental Protection Agency (OEPA). 1985. Preliminary Assessment (PA) of Treasure Island Landfill. September 11.
- OEPA. 1986. PA of Manhattan Dump. August 4.
- OEPA. 1989. "Site Investigation Summary for the Treasure Island-Manhattan Dump (TIM) Site." Prepared by Tina Baker and Jeff Wander. December 28.
- OEPA. 1990. "Maumee River Remedial Action Plan. Stage I Investigation Report." October.
- PRC Environmental Management, Inc. (PRC). 1993a. Record of Telephone Conversation between Kristine Kruk and Bill Schambarger, Toledo Division of Engineering and Construction. February 8.
- PRC. 1993b. Record of Telephone Conversation between Kristine Kruk and Michael Momenee, Midwest Environmental Consultants. February 10.

- PRC. 1993c. Record of Telephone Conversation between Kristine Kruk and Tim Plageman, Wildlife Biologist, Ohio Department of Natural Resources (ODNR). February 10.
- PRC. 1993d. Record of Telephone Conversation between Kristine Kruk and Dale Hertzfeld, Supervisor, Toledo Department of Health and Environment. September 9.
- PRC. 1993e. Record of Telephone Conversation between Kristine Kruk and Lisa Turner, Collingwood Water Bottling Company. September 10.
- PRC. 1993f. Record of Telephone Conversation between Julie Kaiser and Pat Heider, OEPA. September 10.
- Toledo Department of Public Service (Toledo). 1967. Correspondence Regarding Access to the Tuber Dump. March 21.
- Toledo Division of Traffic Engineering. 1975. Correspondence Regarding the License Renewal Request for the S.H. Tuber & Company (Tuber) Dump. June 20.
- City of Toledo (Toledo). 1993a. Real Estate Property Tax Cards for the TIM Dump site.
- Toledo. 1993b. Real Estate Property Tax Cards for the Tuber Dump.
- Toledo. 1993c. Letter Regarding the Storm Water Drainage Ditch at the TIM Dump Site. From Alan Ruffell, Toledo Department of Health and Environment. To Kristine Kruk, PRC. September 1.
- S.H. Tuber and Company. 1975. Correspondence from Samuel H. Tuber to the City of Toledo Regarding the City's Failure to Renew Mr. Tuber's Dumping License. July 17.
- U.S. Department of Agriculture (USDA). 1980. Soil Survey of Lucas County, Ohio. Soil Conservation Service. June.
- U. S. Department of Commerce (DOC). 1968. Climatic Atlas of the United States. U.S. Government Printing Office. Washington, DC.
- U.S. Department of the Interior (DOI). 1977. National Wetlands Inventory Map of Toledo, Ohio. Fish and Wildlife Service. April.
- U.S. Environmental Protection Agency (U.S. EPA). 1980. Potential Hazardous Waste Site Identification. U.S. EPA Form 2070-8 (5-80). November 25.
- U.S. EPA. 1981. Notification of Hazardous Waste Site. U.S. EPA Form 8900-1. June 11.
- U.S. EPA. 1990. Federal Register, 40 CFR Part 300, Hazard Ranking System, Final Rule. December 14.
- U.S. EPA. 1991. "Investigation-Derived Waste Management Guidance Manual." Office of Emergency and Remedial Response Directive 9345.3-02. May.

- U.S. Geological Survey (USGS). 1965. 7.5-Minute Series Topographic Maps of the Toledo and Oregon, Ohio-Michigan, Quadrangles. Photorevised 1980.
- USGS. 1967. 7.5-Minute Series Topographic Map of the Reno Beach, Ohio, Quadrangle.

APPENDIX A

POTENTIAL HAZARDOUS WASTE SITE-SITE INSPECTION REPORT (FORM 2070-13)

(13 Sheets)



Potential Hazardous Waste Site

Site Inspection Report



Site Inspection Report

ŞEPA

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

| I. IDENTIFICATION | | | | |
|-------------------|-----------------|--|--|--|
| 01 STATE | 02 SITE NUMBER | | | |
| OH | OHD 980 811 305 | | | |

| | | SITE LUCATI | ON AND I | NOFECTION | INFORMATI | OI4 | | |
|--------------------------------|----------------------------------|-----------------|----------------|---------------------------------|---------------------------------------|--------------|--------------|------------------|
| II. SITE NAME ANI | | | | | | | | |
| 01 SITE NAME (Legel, commo | | | 1 | ROUTE NO., OR Inhattan Bould | SPECIFIC LOCATIO | N IDENTIFIËR | | |
| Treasure Island - Mar | inattan Dump | | 04 STATE | | | | I 07 COUNTY | OB CONG. |
| Toledo | | | OH | 43612 | Lucas | | CODE | DIST. |
| 09 COORDINATES | | | WNERSHIP ICH | | | | | |
| LATITUDE | LONGITUDE | ☐ A. PRIV | VATE B.F | EDERAL | C. STATE | D. COUNTY | E. MUNICIPAL | |
| 41° 40′ 30" | 83° 31′ 30.0° | ☐ F. OTH | ER | | | G. UNKNOWN | | |
| III. INSPECTION INFO | RMATION | | | | | | | |
| 01 DATE OF INSPECTION | 02 SITE STATUS | 03 YEARS OF | OPERATION | | | | | |
| 03 / 23-24 / 93 | ACTIVE | 1 115 | known | 1 197 | 5 | | UNKNOV | I/NI |
| MONTH DAY YEAR | ☐ INACTIVE | | BEGINNING YE | AR END | ING YEAR | | ONKNOY | VIV |
| | NSPECTION (Check all that apply) | | | | | | · | |
| ON MODITOR FERRINGS | | | | | | | | |
| 🗖 A. EPA 😡 B. EPA C | ONTRACTOR PRC Environmen | | nc. (PRC) | C. MUNICIPAL | D. MUNICIPA | L CONTRACTO | OR | |
| ☐ E. STATE ☐ F. STAT | E CONTRACTOR | e of Firm) | 🗖 c. | OTHER | | | (Narrie | of Firm) |
| | (Nem | | | • | /Spe | | | |
| 06 CHIEF INSPECTOR | | OB TITLE | | | | 07 ORGA | NIZATION | OB TELEPHONE NO. |
| Kristine Kruk | | Environmen | ntal Scientis | ıt | | PRC | | (312) 946-6480 |
| 09 OTHER INSPECTORS | | 10 TITLE | TO COUNTY | | | | NIZATION | 12 TELEPHONE NO. |
| | | | | | | - | | |
| Keith Grezlik | | Geologist | | | | PRC | | (312) 856-8700 |
| Trisha Miller | | Environmen | ntal Scientis | | | PRC | | (513) 241-0149 |
| | | Literiorinier | TELL OCIOTICIS | | | | | |
| Traci Poole | | Environmer | ntal Scientis | t | | PRC | | (404) 522-2867 |
| Scott Lloyd | | Health Scie | ntist | | | PRC | | (708) 255-4166 |
| | | | | - | | | | () |
| 13 SITE REPRESENTATIVES | INTERVIEWED | 14 TITLE | | 16 ADDRESS | | | | 16 TELEPHONE NO. |
| Alan Ruffell | | Registered | Sanitarian | Toledo De | partment of H | | nvironment, | (419) 245-1732 |
| | | | | | | | | () |
| | | | | | | | | |
| | | | | | | | | () |
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| | | - | | | | - | | () |
| | | | | | | | | () |
| | | | | | | | | |
| 17 ACCESS GAINED BY | 18 TIME OF INSPECTION | 19 WEATHER | CONDITIONS | | - | | | () |
| ICheck one) Dermission Warrant | 9:30 a.m. | Cloudy; rair | |) °F | | | | |
| IV. INFORMATION AV | AILABLE FROM | | | | | | | · |
| 01 CONTACT | | 02 OF (Agency/0 | rgenization) | | | | | 03 TELEPHONE NO. |
| Jeanne Griffin | | U.S. Enviro | nmental Pro | tection Agen | cy (EPA) | | | (312) 886-3007 |
| 04 PERSON RESPONSIBLE FO | OR SITE INSPECTION FORM | 06 AGENCY | 06 ORGANIZ | _ | · · · · · · · · · · · · · · · · · · · | 07 TELEPH | ONE NO. | 08 DATE |
| Kristine Kruk | | | PRC | | | (312) 9 | 46-6480 | 08 / 27 / 93 |
| PA FORM 2070-13(7-81) | | | | | | | | MONTH DAY YEAR |



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 2 - WASTE INFORMATION

I. IDENTIFICATION

01 STATE OH 02 SITE NUMBER OHD 980 611 305

| II. WASTE S | TATES, QUANTITIES, | AND CHARACTER | ISTICS | i | | | |
|-----------------------|-------------------------------------|-------------------------------|----------------------------------|---|--|--------------------------------------|--------------------------------|
| | TATES (Check all that apply) | 02 WASTE QUANTITY | | 03 WASTE CHARACTE | RISTICS (Check all that appl | ly/ | |
| | 5 | | waste quantities indepandant) | | 9 | | |
| ■ A. SOLID B. POWDER | ☑ E. SLURRY R. FINES ☑ F. LIQUID | TONS | | | | _ | |
| C. SLUDGE | - | | dem a seem | C. RADIOA | | | |
| 1 _ | | CUBIC YARDS Ur | Known | D. PERSIST | | LE 🔯 L. INCOMPA | ATIBLE |
| D. OTHER | (Specify) | NO OF DRUMS | | | | ☐ M. NOT AP | PLICABLE |
| III. WASTE T | YPE | | | - | | | |
| CATEGORY | SUBSTANCE | NAME | 01 GROSS AMOUNT | 02 UNIT OF MEASURE | | 03 COMMENTS | |
| SLU | SLUDGE | | Unknown | | 1 . | amounts of waste | |
| OLW | OILY WASTE | | Unknown | | | However, industri | |
| SOL | SOLVENTS | | Unknown | | including neavy m having been depos | etals, have been do sited on site | cumented as |
| PSD | PESTICIDES | | Unknown | | | | |
| осс | OTHER ORGANIC CH | IEMICALS | Unknown | | | | |
| IOC | INORGANIC CHEMIC | ALS | Unknown | | | | |
| ACD | ACIDS | | Unknown | | | | |
| BAS | BASES | | Unknown | † · · · · · · · · · · · · · · · · · · · | | ***** | |
| MES | HEAVY METALS | | Unknown | | | | |
| IV. HAZARD | OUS SUBSTANCES (See | Appendix for most frequent | ly cited CAS Numbers) | | <u> </u> | | |
| 01 CATEGORY | 02 SUBSTANC | CE NAME | 03 CAS NUMBER | 04 STORAGE/DIS | SPOSAL METHOD | 05 CONCENTRATION | 06 MEASURE OF CONCENTRATION |
| D004 | Arsenic | | 7440-38-2 | Landfilled | | 21.3 | μg/L |
| D005 | Barium | | 7440-39-3 | Landfilled | | 464 | mg/kg |
| D006 | Cadmium | | 7440-43-9 | Landfilled | | 17.8 | mg/kg |
| | Manganese | | 7439-96-5 | Landfilled | | 116 | μg/L |
| | Zinc | | 7440-66-6 | Landfilled | | 90 | μg/L |
| | Dibenzofuran | | 132-64-9 | Landfilled | | 630 | μg/kg |
| | Phenanthrene | - | 85-01-8 | Landfilled | | 7,500 | μg/kg |
| D009 | Mercury | | 7439-97-6 | Landfilled | | 0.5 | mg/kg |
| | Nickel | | 7440-02-0 | Landfilled | | 60.5 | mg/kg |
| | 4,4'-DDE | | 72-55-9 | Landfilled | | 45 | µg/kg |
| | 4,4'-DDT | | 50-29-3 | Landfilled | | 27 | μg/kg |
| | | | *** | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| V. FEEDSTO | CKS (See Appendix for CAS Num | bers) | | | | | <u> </u> |
| CATEGORY | 01 FEEDSTOC | | 02 CAS NUMBER | CATEGORY | O1 FEEDST | OCK NAME | 02 CAS NUMBER |
| FDS | | | | FDS | | • | |
| FDS | | | | FDS | | | |
| FDS | | | | FDS | | | |
| FDS | ¥**** | | | FDS | | | |
| | OF INFORMATION ICIN | a specific relevances a n - | late files, semple englysis, sen | i — i | <u> </u> | | <u></u> |
| See attached | | o upocino rendrantes, e.g., s | стог, артула рпрума, 160 | ··········· | | | |
| | 23,199910 | | | | | | |
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| | | | | | | | |
| EPA FORM 2070- | 13/7-01\ | | | | | | |

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

| I. IDENTIFICATION | | | | | |
|-------------------|-----------------|--|--|--|--|
| 01 STATE | 02 SITE NUMBER | | | | |
| OH | OHD 980 611 305 | | | | |

| PART 3 - DESCRIPTION OF | HAZARDOUS CONDITIONS AND INC | CIDENTS - | |
|--|---|---------------------------|---------------------------------------|
| II. HAZARDOUS CONDITIONS AND INCIDENTS | | | |
| 01 🖾 A. GROUNDWATER CONTAMINATION | 02 OBSERVED (DATE: |) ⊠роті | ENTIAL ALLEGED |
| During this sampling investigation, contaminants were not established because groundwater is not used as dri | detected in groundwater beneath the site | . However, ba | ckground concentrations were |
| 01 MB, SURFACE WATER CONTAMINATION | 02 OBSERVED (DATE: 03 / 23-24 / 93 | роті В Роті | ENTIAL DALLEGED |
| 03 POPULATION POTENTIALLY AFFECTED: 489,000 | 04 NARRATIVE DESCRIPTION | | |
| Samples documenting contamination of on-site surface sewer drainage ditch originating on site ultimately dischultimately discharges to Lake Erie about 3 miles downs | narges to the Maumee River about 1 mile | | |
| 01 MC. CONTAMINATION OF AIR | 02 DOBSERVED (DATE: | Поте | NTIAL MALLEGED |
| 03 POPULATION POTENTIALLY AFFECTED: Unknown | 04 NARRATIVE DESCRIPTION | | |
| Underground chemical fires due to incompatible wastes affected the surrounding population. The area within the surrounding population is a surrounding population. | | | · · · · · · · · · · · · · · · · · · · |
| 01 MD. FIRE/EXPLOSIVE CONDITIONS | 02 OBSERVED (DATE:) | □РОТІ | ENTIAL MALLEGED |
| 03 POPULATION POTENTIALLY AFFECTED: Unknown See comment above | 04 NARRATIVE DESCRIPTION | | |
| 01 ☑ E. DIRECT CONTACT 03 POPULATION POTENTIALLY AFFECTED: Unknown Hiking trails and pathways were observed in wooded ar | 02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION eas throughout the site, and a residence i | SZPOTE salso located (| |
| located in the former Treasure Island Dump area. | | | |
| 01 MF. CONTAMINATION OF SOIL | 02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | ⊠ РОТЕ | ENTIAL DALLEGED |
| 03 AREA POTENTIALLY AFFECTED: -150 | U4 NARRATIVE DESCRIPTION | | |
| On-site soils have never been tested for contaminants. | | | |
| 01 ☑G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 489,000 | 02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | ₩POTE | NTIAL ALLEGED |
| The City of Toledo receives its drinking water from intel | | site. | |
| 01 MH. WORKER EXPOSURE/INJURY | 02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION | ⊠ РОТЕ | NTIAL ALLEGED |
| 03 POPULATION POTENTIALLY AFFECTED: <u>Unknown</u> On-site conditions during years of operation are unknown | | | |
| | | | |
| 01 III. POPULATION EXPOSUREANJURY | 02 DOBSERVED (DATE:) | POTE | NTIAL ALLEGED |
| 03 POPULATION POTENTIALLY AFFECTED: Unknown | 04 NARRATIVE DESCRIPTION | | Ì |
| Nearby populations may have been affected by fumes fr | om previous chemical fires. | | |

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS A

| I. IDENTIFICATION | | | | |
|-------------------|-----------------|--|--|--|
| 01 STATE | 02 SITE NUMBER | | | |
| ОН | OHD 980 611 305 | | | |

| | N OF HAZARDOUS CONDITIONS AN | | .N13 | |
|--|--|-------------|-----------------------|-------------------|
| II. HAZARDOUS CONDITIONS AND INCIDENTS | | | | |
| 01 ☑J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION | 02 OBSERVED (DATE: |) | ☑ POTENTIAL | ☐ ALLEGED |
| Through contamination of on-site sediments and Lake Erie, damage to flora, fauna, and the food c | | mination (| of on-site soils, the | Maumee River, and |
| 01 MK. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include namels) of species) See comment above | 02 OBSERVED (DATE: |) | M POTENTIAL | □ ALLEGED |
| 01 ML. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION See comment II.J above. | 02 OBSERVED (DATE: | | ☑ POTENTIAL | ☐ ALLEGED |
| 01 M. UNSTABLE CONTAINMENT OF WASTES (Spits/Funcit/Standing liquids, Leaking Drums) 03 POPULATION POTENTIALLY AFFECTED: Unknown | 02 DOBSERVED (DATE: 03/24/93 04 NARRATIVE DESCRIPTION |) | POTENTIAL | ☐ ALLEGED |
| No liner, maintained engineered cover, functional collection and removal system are present at the | | managem | ent system, or func | tioning leachate |
| 01 N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION | 02 OBSERVED (DATE: |) | POTENTIAL | ☐ ALLEGED |
| 01 ☑ 0. CONTAMINATION OF SEWERS, STORM DRAINS, WWTI 04 NARRATIVE DESCRIPTION Contamination of the storm sewer drainage ditch | |) | GOTENTIAL | ☐ ALLEGED |
| o1 ☑P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION Allegedly, the concrete recycling facility at the so | o2 ☐ observed (DATE: | llegally du | POTENTIAL | ØALLEGED |
| Tuber Dump for an unknown period of time until | about 1990. | | | |
| SO DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, ON ALLE | GED HAZARUS | | | |
| III. TOTAL POPULATION POTENTIAL AFFECTED: IV. COMMENTS None | 489,000 | | | |
| V. SOURCES OF INFORMATION (Cite specific references, e | g., state tiles, sample analysis, taports) | | | |
| PA FORM 2070-13(7-81) | | | | |

| 8 | E | P | A |
|---|---|---|---|
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EPA FORM 2070-13(7-81)

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 4 - PERMIT AND DESCRIPTIVE INFORMATION

| I. IDENTIFICATION | | | | | |
|-------------------|-----------------|--|--|--|--|
| 01 STATE | 02 SITE NUMBER | | | | |
| OH | OHD 980 611 305 | | | | |

| 1 | PART 4 - PERMIT AN | ND DESCRIPT | TIVE INFORMATION | | N 0ND 980 611 308 |
|--|---|---------------------------|-------------------------------|---------------|----------------------|
| " CERTAIN INCORNATION | | | | | |
| II. PERMIT INFORMATION 01 TYPE OF PERMIT ISSUED | TOO DEDLATE AUGUSTO | 100 0475 | TA4 EVOIDATION | 105 001414 | |
| (Check all that apply) | 02 PERMIT NUMBER | 03 DATE | 04 EXPIRATION DATE | 05 COMME | ENTS |
| | | ISSUED | DATE | | |
| A. NPDES | | | | ļ | |
| 1 | | | | | |
| ☐ B. UIC | | | | + | |
| □ c. AIR | 1 | 1 | | | |
| D. RCRA | | 1 | | | |
| ☐ E. RCRA INTERIM STATUS | | | | | |
| ☐ F. SPCC PLAN | | | | T | |
| G. STATE (Specify) | I | <u> </u> | | <u> </u> | |
| 12 H. LOCAL (Specify) | Unknown | | | City of Tole | odo |
| ☐ I. OTHER (Specify) | | | | | |
| J. NONE | | <u> </u> | <u>i</u> | | |
| III. SITE DESCRIPTION | 22 222 107 | = 222240195 | To a management of the second | | T :: |
| 01 STORAGE/DISPOSAL (Check all theil apply) | 02 AMOUNT 03 UNI | IT OF MEASURE | 04 TREATMENT (Check all that | apply) | 05 OTHER |
| ☐ A. SURFACE IMPOUNDMENT | | ·· <u> </u> | A. INCINERATION | | |
| DB. PILES | | | B. UNDERGROUND INJECT | ION | A. BUILDINGS ON SITE |
| C. DRUMS, ABOVE GROUND D. TANK, ABOVE GROUND | | | C. CHEMICAL/PHYSICAL | | |
| D. TANK, ABOVE GROUND E. TANK, BELOW GROUND | | ' | E. WASTE OIL PROCESSING | G. | 06 AREA OF SITE |
| ØF. LANDFILL | Unknown | 1 | ☐ F. SOLVENT RECOVERY | • | OU PRIEST OF GIVE |
| ☐ G. LANDFARM | | ' | G, OTHER RECYCLING/REC | OVERY | |
| MH. OPEN DUMP | Unknown | | H, OTHER | -Hut | 150 (Aass) |
| I. OTHER | | ! | · | y, | 1 |
| 07 COMMENTS | | | | | <u> </u> |
| None | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| IV. CONTAINMENT | | | | | |
| 01 CONTAINMENT OF WASTES (Check one) | | | | ···· | |
| D . ADEQUATE GEOLOG | П в морговит П | - " | M D INCEGUI | 55 118100118D | 2.11050010 |
| O2 DESCRIPTION OF DRUMS, DIKING, LINERS | | C. INADEQUATE | E, POOR W D. INSECU | RE, UNSOUND, | DANGEROUS |
| 02 DESCRIPTION OF DROMS, DIKING, BILLIO | , BARRIERS, ETC. | | | | |
| See Part 3, Section M. | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| V. ACCESSIBILITY | | | | | |
| 01 WASTE EASILY ACCESSIBLE: WYES 02 COMMENTS | □no | | | | |
| UZ COMMENTO | | | | | |
| Site access is restricted by a fence | along a portion of the nor | thern site bord | der only. | | |
| | | | | | |
| VI. SOURCES OF INFORMATION (CIR | | | | | |
| See attached SSI report. | E SPECIAL IOLEGICOS, E.G., MEIO Hoo, MA | mple anarysis, reprinting | <u>,</u> | | |
| 000 attached 001 10po.t. | | | | | |
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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT TO A WASTE DEMOGRAPHIC AND ENVIRONMENT

| I. IDENTIFICATION | | | | | |
|--------------------|----------------|--|--|--|--|
| 01 STATE | 02 SITE NUMBER | | | | |
| OH OHD 980 611 305 | | | | | |

| | DART | 5 - WASTE, DEN | ACCDADUIC | | AIRECRITA | L DATA L | ОН | OHD 980 611 305 | | |
|--------------------|------------------------------------|---|---------------------------|------------------------|--|---------------------|--------------|-----------------------------------|--|--|
| | PARI | 5 - WASIE, DEN | NUGRAPHIC, | AND ENVIRC | MMENIA | L DATA - | | | | |
| II. DRINKING | WATER SUPPLY | | | | · . | | | | | |
| 01 TYPE OF DRI | NKING SUPPLY | | 02 STATUS | | | | | 03 DISTANCE TO SITE | | |
| (Check as appr | opriete) | | | | | | | | | |
| | SURFACE | WELL | ENDANGERE | D AF | FECTED | MONITO | DRED | 1 | | |
| COMMUNITY | A. 🖾 | В. 🗖 | A. 🗆 | | в. 🗖 | c. 5 | 2 | A. <u>14 (mi)</u> | | |
| NON-COMMU | NITY C. 🗖 | D. 🖾 | D. 🗆 | | E. 🗆 | F. C | 3 | B. <u>3</u> (mi) | | |
| III. GROUND | | | <u> </u> | | =:- | | | ,,,,,,, | | |
| | TER USE IN VICINITY (Cheek eng) | | · | | | | | | | |
| UT GROUNDWA | TEN USE IN VICINITY (Charge and) | | | | | | | | | |
| A. ONLY SO | OURCE FOR DRINKING | B. DRINKING | | 🗆 с. сомі | MERCIAL, INDI | JSTRIAL, IRRIGA | TION | . NOT USED, UNUSABLE | | |
| | | (Other sources evadable) | | | other sources av | allabiaj | | | | |
| | | COMMERCIAL, IND (No other water soun | IUSTRIAL, IRRIGATION | | | | | | | |
| | | , NO OBJECT WELL COMM | | | | | | | | |
| | | | | | | | | | | |
| 02 POPULATION | SERVED BY GROUND WATER | 7,000 | | 03 DISTAN | ICE TO NEARE | ST DRINKING WA | TER WEL | L <u>3</u> (mi) | | |
| 04 DEPTH TO G | ROUNDWATER | 05 DIRECTION OF GR | OUNDWATER FLOW | | TO AQUIFER | 07 POTENTIA | | 08 SOLE SOURCE AQUIFER | | |
| | | | | OF COM | ICERN | OF AQUIF | ER | D | | |
| _~10(ft)Unknown | | | 'n | _NA_{f | t) | Unknown | (gpd) | ☐YES ☑NO | | |
| | N OF WELLS (Including usage, dept) | and lessting relative to one | ulasing and buildings | | | | - | <u> </u> | | |
| | | | - | ush-ioint, sched | ule 40 polyvi | nvl chloride (P | VC). The | e well screen is 7 feet long | | |
| · | | _ | | | | | | ght of about 2 feet above the | | |
| top of the scr | en. Hydrated sodium bent | onite fills the remaini | ng annular space | to a depth of al | out 1 foot b | elow existing (| grade. A | locking protector pipe is | | |
| installed into t | he concrete at the ground | surface. This monitor | ring well was con | structed on Oct | ober 29, 199 | 02. | | | | |
| 10 BECHARGE 4 | | | | 11 DISCHA | DOE AREA | | | | | |
| | 10 RECHARGE AREA | | | | COMMEN | T6 C | | diameter language | | |
| □YES □NO | COMMENTS Unknown | | | PYES | ☐ YES COMMENTS Groundwater may discharge locally to on-site water bodies | | | | | |
| | - 14/4 TED | | | | | | | | | |
| IV. SURFAC | | | | | | | | | | |
| | ATER USE (Check one) | _ | | _ | | | _ | | | |
| | DIR, RECREATION | B. IRRIGATION, | | C. C | OMMERCIAL | , INDUSTRIAL | □D. | NOT CURRENTLY USED | | |
| DRINKING | 3 WATER SOURCE | IMPORTANT | RESOURCES | | | | | | | |
| 00 45550750 80 | TENTIALLY ACCOUNTS | 205144750 | | | | | | | | |
| | OTENTIALLY AFFECTED BODIES | OF WAITH | | | | AFFFOTED | | DIOTANICE TO CITE | | |
| NAME: | | | | | | AFFECTED | | DISTANCE TO SITE | | |
| Storm sawa | r ditch on site | | | | | ⊠ | 0 | (mi) | | |
| Maumee Riv | | | | | | | | 1 (mi) | | |
| Lake Erie | . | | | | | | | (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | |
| | | | | | | | | | | |
| V. DEMOGRA | APHIC AND PROPERTY | INFORMATION | | | | | | | | |
| 01 TOTAL POPU | LATION WITHIN | | | | 02 DISTAN | CE TO NEAREST | POPULAT | ION | | |
| ONE (1) MI | LE OF SITE TWO (| 2) MILES OF SITE | THREE (3) MI | LES OF SITE | | | | | | |
| A. <u>~ 22,562</u> | | | C. <u>~116,82</u> | 0 | | 0 | | (mi) | | |
| | | IO. OF PERSONS | | | | | | , | | |
| NO. OF F | | | NO. OF P | | <u> </u> | | | | | |
| 03 NUMBER OF | BUILDINGS WITHIN TWO (2) MI | LES OF SITE | | 04 DISTANCE I | O NEAREST OF | FF-SITE BUILDING | i | | | |
| | ~23,535 | | | | < 0.2 | 5 | | (mi) | | |
| OF POPULATION | WITHIN VICINITY OF SITE IPTON | ide negative description of ne | ture of population within | vicinity of site a a | | | aveel | | | |
| 00.070270 | | no name in a sample of the | nation population with | vically or alte, e.g., | rus, vmage, car. | say populated areas | 4 04/ | | | |
| The site is lo | cated in the City of Tole | do; therefore, the | area surroundin | g the site is a | densely por | pulated urbar | area. | | | |
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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT E. WASTE DEMOGRAPHIC AND ENVIRONMENT

| I. IDENTIFICATION | | | | | |
|-------------------|-----------------|--|--|--|--|
| 01 STATE | 02 SITE NUMBER | | | | |
| ОН | OHD 980 611 306 | | | | |

| Ariv | DART | 5 - WASTE, DEN | AUCBVERIC | | NIBACNITA | I DATA L | ОН | OHD 980 611 306 | | |
|---|--------------------------|----------------------------------|--|----------------------------|----------------------|---------------------|---------------|---|--|--|
| | FANI | 5 - WASIE, DEIW | NOGRAFIIC, | AND ENVIN | MINIEIAIA | LUAIA | | | | |
| II. DRINKING WATI | ER SUPPLY | | | | | | | | | |
| 01 TYPE OF DRINKING S (Check as appropriate) | UPPLY | | 02 STATUS | | | | | 03 DISTANCE TO SITE | | |
| (Crack of Spirophoto) | SURFACE | WELL | ENDANGER | RED AF | FECTED | MONIT | ORED | | | |
| COMMUNITY | A. 🖾 | В. 🗖 | A. 🗆 | | в. 🗆 | C. | ⊠ | A. <u>14 (</u> mi) | | |
| NON-COMMUNITY | c. 🗖 | D. 🖾 | D. 🗆 | | E. 🗖 | F. | 0 | B. <u>3</u> (mi) | | |
| III. GROUNDWATE | R | | | | · | | | | | |
| 01 GROUNDWATER USE | IN VICINITY (Cheek error | | | | | | | | | |
| A. ONLY SOURCE FO | OR DRINKING | ☑ B. DRINKING | | □ с. сом | MERCIAL. INDI | USTRIAL, IRRIGA | ATION | . NOT USED, UNUSABLE | | |
| | | (Other sources available) | MICTOIAL IDDICATIO | (Limited | d other sources av | | | , | | |
| | | (No other water source | NUSTRIAL, IRRIGATIO cos avaliable) | | | | | | | |
| | | | | | | | | | | |
| 02 POPULATION SERVED | BY GROUND WATER | 000 | | 03 DISTA | ICE TO NEARE | ST DRINKING W | ATER WELI | L (mi) | | |
| 04 DEPTH TO GROUNDWATER 05 DIRECTION OF GROU | | | OUNDWATER FLOV | | TO AQUIFER | 07 POTENTIA | | 08 SOLE SOURCE AQUIFER | | |
| | | | | OF COI | NCERN | OF AQUI | FER | □YES ■NO | | |
| ~10 | (ft) | Unknow | <u>n</u> | NA (f | t) | Unknown | _ (gpd) | D123 2010 | | |
| 09 DESCRIPTION OF WEL | | | - | | | | | | | |
| | | | | | | | | e well screen is 7 feet long tht of about 2 feet above the | | |
| | | | | | | | | locking protector pipe is | | |
| installed into the conc | rete at the ground | surface. This monitor | ing well was cor | nstructed on Oct | ober 29, 199 | 2. | | | | |
| 10 RECHARGE AREA | 10 RECHARGE AREA | | | | | 11 DISCHARGE AREA | | | | |
| TES COMM | YES COMMENTS | | | | COMMEN | | | discharge locally to | | |
| □ NO Unknown | | | | □ NO | | on-site | water bodi | es | | |
| IV. SURFACE WATE | R | | | | | | | | | |
| 01 SURFACE WATER USE | | m | | = | | | | | | |
| A. RESERVOIR, REC | | ☐ B. IRRIGATION, IMPORTANT | | Y 🔟 C. C | DMMERCIAL, | , INDUSTRIAL | . L D. | NOT CURRENTLY USED | | |
| | | | | | | | | | | |
| 02 AFFECTED/POTENTIAL | LY AFFECTED BODIES | OF WATER | | | | | | <u> </u> | | |
| NAME: | | | | | | AFFECTED | | DISTANCE TO SITE | | |
| Storm sewer ditch | on site | | | | | Ø | 0 | (mi) | | |
| Maumee River | | | | | | | 1 | (mi) | | |
| Lake Erie | | | | | | | <u>3</u> | (mi) | | |
| V. DEMOGRAPHIC | AND PROPERTY | NFORMATION | | | | | | | | |
| 01 TOTAL POPULATION V | WTHIN | | | | 02 DISTANO | CE TO NEAREST | POPULATI | ON | | |
| ONE (1) MILE OF S | ITE TWO (| 2) MILES OF SITE | | IILES OF SITE | | | | | | |
| A. <u>~22,562</u> | B. <u>~54</u> | ,680 | C. <u>~ 116,82</u> | <u>20</u> | | 0 | | (mi) | | |
| NO. OF PERSONS | | U. OF PERSONS | NO. OF I | PERSONS | | | | | | |
| 03 NUMBER OF BUILDING | S WITHIN TWO (2) MI | LES OF SITE | | 04 DISTANCE T | O NEAREST OF | F-SITE BUILDIN | G | | | |
| | ~ 23,535 | | | | <0.2 | 5 | | (mi) | | |
| 05 POPULATION WITHIN Y | VICINITY OF SITE IProvi | ide nerretive description of net | ture of population withi | in vicinity of site, e.g., | rural, village, dens | rely populated urba | aree/ | | | |
| The site is located in | the City of Tole | dos therefore the c | ree eurroundin | a the site is a | danaalu nar | aulatad uuba | | | | |
| The site is located in | the City of Tole | do; therefore, the a | irea surroundin | ig the site is a | aensely pop | oulated urba | n area. | | | |
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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

| I. IDENTI | FICATION |
|-----------|---------------|
| O1 STATE | OR SITE NUMBE |

02 SITE NUMBER OHD 980 611 306 PART 5 - WASTE, DEMOGRAPHIC, AND ENVIRONMENTAL DATA VI. ENVIRONMENTAL INFORMATION 01 PERMEABILITY OF UNSATURATED ZONE (Check one) □ A. 10⁻⁶ - 10⁻⁶ cm/sec □ B. 10⁻⁴ - 10⁻⁶ cm/sec □ C. 10⁻⁴ - 10⁻³ cm/sec □ D. GREATER THAN 10⁻³ cm/sec 02 PERMEABILITY OF BEDROCK (Check one) ☐ A. IMPERMEABLE B. RELATIVELY IMPERMEABLE C. RELATIVELY PERMEABLE D. VERY PERMEABLE (Less then 10⁻⁶ cm/sec) $(10^2 - 10^4 \text{ cm/sec})$ (10⁻⁴ - 10⁻⁶ cm/sec) (Greater than 10°2 cm/sec) 03 DEPTH TO BEDROCK 04 DEPTH OF CONTAMINATED SOIL ZONE 05 SOIL pH ~ 15__ (ft) ~100 (ft) Unknown 06 NET PRECIPITATION 07 ONE YEAR 24-HOUR RAINFALL OB SLOPE SITE SLOPE DIRECTION OF SITE SLOPE | TERRAIN AVERAGE SLOPE Multiple Undulating % __0 __ (in) 4.34 10 09 FLOOD POTENTIAL SITE IS IN 100-YEAR FLOODPLAIN ☐ SITE IS ON BARRIER ISLAND, COASTAL HIGH HAZARD AREA, RIVERINE FLOODWAY 12 DISTANCE TO CRITICAL HABITAT (of endangered species) 11 DISTANCE TO WETLANDS (6-acre minimum) ESTUARINE <u>NA</u> (mi) OTHER ENDANGERED SPECIES: A. _____ (mi) B. <u>O</u> (mi) 13 LAND USE IN VICINITY DISTANCE TO: RESIDENTIAL AREAS, NATIONAL/STATE PARKS COMMERCIAL/INDUSTRIAL FORESTS, OR WILDLIFE RESERVES AGRICULTURAL LANDS PRIME AG LAND AG LAND B. <u>0</u> (mi) A. ____ < 0.25 (mi) C. <u>Unknown</u> (mi) D. <u>Unknown</u> (mi) 14 DESCRIPTION OF SITE IN RELATION TO SURROUNDING TOPOGRAPHY The site is somewhat triangular, with railroad easements on the east and west borders. Fill areas are located near the center of the site, and the site perimeter is mostly wooded and overgrown. Urban land surrounds the site. Industries are located north and east of the site, and residences are generally south and west of the site. VII. SOURCES OF INFORMATION (Cite specific references, e.g., state likes, semple enelysis, reports)

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 6 - SAMPLE AND FIELD INFORMATION

| I. IDENTIFICATION | | | | | |
|-------------------|-----------------|--|--|--|--|
| 01 STATE | 02 SITE NUMBER | | | | |
| ОН | OHD 980 611 305 | | | | |

| II CAMPIEC TAKEN | | | | | | |
|--|---------------------------------|---|--|--|--|--|
| II. SAMPLES TAKEN | 01 NUMBER OF | 02 CAMPI EC CENT TO | 00 507114750 0475 | | | |
| SAMPLE TYPE | SAMPLES TAKEN | 02 SAMPLES SENT TO | 03 ESTIMATED DATE RESULTS AVAILABLE | | | |
| GROUNDWATER | 1 | American Analytical and Technical Services and Compuchem Laboratories | 06/23/93 | | | |
| SURFACE WATER | 6 | American Analytical and Technical Services and Compuchem Laboratories | 06/23/93 | | | |
| WASTE | | | | | | |
| AIR | | | | | | |
| RUNOFF | | | | | | |
| SPILL | | | | | | |
| SOIL | | | | | | |
| VEGETATION | | | | | | |
| OTHER - Sediment | 9 | American Analytical and Technical Services and Compuchem Laboratories | 06/23/93 | | | |
| III. FIELD MEASUREMENTS T | AKEN | | | | | |
| 01 TYPE | | 02 COMMENTS | | | | |
| HNu/OVA | | No readings above background | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| IV. PHOTOGRAPHS AND MAR | PS | | | | | |
| 01 TYPE GROUND GARIA | s L | 02 IN CUSTODY OF PRC [Marrie of organization or individual] | | | | |
| 03 MAPS 04 LOCATION OF | MAPS | | | | | |
| ☑ YES PRC PRC | | | | | | |
| V. OTHER FIELD DATA COLLE | CTFD @wwide executive do | and that | | | | |
| V. OTHER FILES DATA GOLLE | O 1 LO IFIOND PARTE OF | ec grown | | | | |
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| | | | | | | |
| VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports) | | | | | | |
| VI. SUUNCES OF INFORMATIO | JN (Cite specific references, e | .g., state files, sample analysis, reportsi | | | | |
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| PA FORM 2070-13(7-81) | | | | | | |

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 7 - OWNER INFORMATION

| I. IDENTIF | |
|------------|-----------------------------------|
| 01 STATE | 02 SITE NUMBER OHD 980 611 305 |
| ОН | OHD 980 611 305 |

| II, CURRENT OWNER(S) | | | | PARENT COMPANY (II applicable) | | | | | |
|---|---------------------------------------|-----------------|--------------------------------|--|----------------------|-----------------|-----------------|--|--|
| 01 NAME | | 02 D+B NUMBER | | OB NAME | 09 D + B NUMBER | | | | |
| City of Toledo, Ohio | | 021 | O+B NUMBER | 00.174.112 | | | OS D 7 B NOWBER | | |
| 03 STREET ADDRESS IP.O. Box, RFD 8. etc.) 525 N. Erie Street | | - | 04 SIC CODE | 10 STREET ADDRESS (P.O. Box, RFD 8, etc.) | | | 11 SIC CODE | | |
| 05 CITY Toledo | 06 STATE | 07 Z 436 | IP CODE 524 | 12 CITY | 2 CITY 13 STATE | | | | |
| OT NAME | | | + B NUMBER | 08 NAME | | | 09 D + B NUMBER | | |
| 03 STREET ADDRESS (P.O. Box, RFD \$, etc.) | | | 04 SIC CODE | 10 STREET ADDRESS (P.O. Box, RFD \$, etc.) | | 11 SIC CODE | | | |
| 05 CITY | 06 STATE | 07 Z | IP CODE | 12 CITY | 2 CITY 13 STATE | | | | |
| 01 NAME | · · · · · · · · · · · · · · · · · · · | 02 D | + B NUMBER | OB NAME | L | 09 D | + B NUMBER | | |
| 03 STREET ADDRESS (P.O. Box, RFD \$, etc.) | | l | 04 SIC CODE | 10 STREET ADDRESS (P.O. Box, RFD 8. etc.) | | 1 | 11 SIC CODE | | |
| 06 CITY | 06 STATE | 07 ZIP CODE | | 12 CITY | 13 STATE | | P CODE | | |
| O1 NAME | | 02 D+B NUMBER | | OB NAME | | | 09 D+B NUMBER | | |
| 03 STREET ADDRESS (P.O. Box, AFD #, etc.) | | 04 SIC CODE | | 10 STREET ADDRESS (P.O. Box, AFD &, etc.) | | | 11 SIC CODE | | |
| 06 CITY | 06 STATE | 07 ZIP CODE | | 12 CITY | 13 STATE | 14 ZIP CODE | | | |
| III. PREVIOUS OWNER(S) (List most recent | first) | | | IV. REALTY OWNER(S) III applicable | list most recent fil | 3()) | | | |
| 01 NAME Samuel Tuber | | 02 D + B NUMBER | | 08 NAME | | 09 D+B NUMBER | | | |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 2401 Consaul Street | | 04 SIC CODE | | 10 STREET ADDRESS (P.O. Box, AFD 8, etc.) | | 11 SIC CODE | | | |
| 05 CITY Toledo | 06 STATE OH | 07 Z 43 E | P CODE | 12 CITY | 13 STATE | | P CODE | | |
| 01 NAME William Elliot | - | 02 D + B NUMBER | | OB NAME | | 09 D + 8 NUMBER | | | |
| 03 STREET ADDRESS (P.O. Box, RFD #, etc.) 2005 Ketcham Avenue | | | 04 SIC CODE | 10 STREET ADDRESS (P.O. Box, RFD #, etc.) | | • | 11 SIC CODE | | |
| os city Toledo | 06 STATE OH | 07 Z 436 | P CODE | 12 CITY | 13 STATE | 14 Zi | P CODE | | |
| O1 NAME | | 02 D | + B NUMBER | O8 NAME | | 09 D | + B NUMBER | | |
| 03 STREET ADDRESS (P.O. Box, NFD B, etc.) | | | 04 SIC CODE | 10 STREET ADDRESS (P.O. Box, RFD #, etc.) | | 11 SIC CODE | | | |
| 06 CITY | 06 STATE | 07 Z | P CODE | 12 CITY | 13 STATE | 14 ZI | P CODE | | |
| V. SOURCES OF INFORMATION ICIIe | specific references, | e.g., sta | re tiles, semple analysis, rep | orts) | | | | | |
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EPA FORM 2070-13(7-81)

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 8 - OPERATOR INFORMATION

| I. IDENTI | FICATION |
|-----------|-----------------|
| 01 STATE | 02 SITE NUMBER |
| он | OHD 980 611 306 |

| _ | | PART 8 | 3 - Oi | PERATOR INF | ORMATION | | 1 | | | |
|---|---|---------------------------------------|---------------|-------------------------|---|-------------------|-------------|---------------|-------------|--|
| II. CURRENT OPERAT | OR Provide # different from | ewner/ | | · | OPERATOR'S PARENT COMPANY (If applicable) | | | | | |
| O1 NAME | | · · · · · · · · · · · · · · · · · · · | 02 0 | +8 NUMBER | 10 NAME | | | 11 D+B NUMBER | | |
| 03 STREET ADDRESS P.O. B | ox, RFD 8, etc.) | | <u> </u> | 04 SIC CODE | 12 STREET ADDRESS (P.O. | Box, AFD 8, etc.) | | | 13 SIC CODE | |
| 06 CITY | <u></u> | 06 STATE | 07 ZIP CODE | | 14 CITY | | 16 STATE | 16 Z | IP CODE | |
| 08 YEARS OF OPERATION | 09 NAME OF OWNER | | <u> </u> | | | | | | | |
| III. PREVIOUS OPERA | TOR(S) (Liet most recent fit | rst; provide only if | different | from owner) | PREVIOUS OPERATO | R'S PARENT (| COMPANY A | f applicat | ble) | |
| 01 NAME Orville Bevel | | | | + B NUMBER | 10 NAME | | | 11 D | + B NUMBER | |
| 03 STREET ADDRESS (P.O. Box, RFD 8, erc.) Unknown | | | <u> </u> | 04 SIC CODE | 12 STREET ADDRESS (P.O.) | Box, RFD #, etc.) | • | 1 | 13 SIC CODE | |
| 06 CITY | 06 CITY 08 STATE | | 07 Z | IP CODE | 14 CITY | | 16 STATE | 16 ZI | IP CODE | |
| 08 YEARS OF OPERATION | 09 NAME OF OWNER | DURING THIS PI | ERIOD | | | | | 1 | | |
| O1 NAME | | | 02 D | + B NUMBER | 10 NAME | | | 11 D+B NUMBER | | |
| 03 STREET ADDRESS IP.O. Be | 03 STREET ADDRESS (P.O. Box. RFD &, etc.) | | 04 SIC CODE | | 12 STREET ADDRESS (P.O. Box, RFD #, etc.) | | | 13 SIC CODE | | |
| 05 CITY | | 06 STATE | 07 ZI | P CODE | 14 CITY | 15 STATE | | 18 ZIP CODE | | |
| 08 YEARS OF OPERATION | 09 NAME OF OWNER I | DURING THIS PE | RIOD | - , , - » | | | <u> </u> | 1 | | |
| O1 NAME | l | | 02 D+B NUMBER | | 10 NAME | | | 11 D | + B NUMBER | |
| 03 STREET ADDRESS (P.O. Bo | x, NFD 8, etc.) | | 04 SIC CODE | | 12 STREET ADDRESS (P.O. Box, RFD 8, etc.) | | 13 SIC CODE | | | |
| 05 CITY | | 06 STATE | 07 ZIP CODE | | 14 CITY | 16 STATE | | 16 ZIP CODE | | |
| OB YEARS OF OPERATION | 09 NAME OF OWNER D | OURING THIS PE | RIOD | | | | | | | |
| V. SOURCES OF INFO | RMATION (Cite specific) | eferences, e.g., su | ite files, s | sample analysis, report | v | | | | | |
| · · · · · · · · · · · · · · · · · · · | | | | | | | | | | |
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EPA FORM 2070-13(7-81)

POTENTAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

| II. ENFORCEMENT INFORMATION | | | |
|---|---------------------------------------|--|--|
| 01 PAST REGULATORY ENFORCEMENT ACTION | S DINO | | |
| 02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATO | RY/ENFORCEMENT ACTION | | |
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| III. SOURCES OF INFORMATION (Cite appecific references, e.g., si | tale lijes, semple enalysis, reportsi | | |
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APPENDIX B

PHOTOGRAPHIC LOG (Six Pages)



Photograph No. 1 Orientation:

1 West Sampling Location: SD-02; SD-02D; SW-02; and SW-02D Date: 03/23/93

Description: Sampling about 200 feet downgradient of the storm sewer outfall, where duplicate

samples were collected; note the small, old, concrete outfall in the distance



Photograph No. 2

Orientation: West

Description:

Sampling within the storm sewer outfall

Sampling Location: SW-01

Date: 03/23/93



Photograph No. 3
Orientation: Southwest

Description: Sampling about 15 feet southeast of the storm sewer outfall



Photograph No. 4

Sampling Location: SD-04 and SW-04

Sampling Location: SD-01

Date: 03/23/93

Orientation: North

Date: 03/23/93

Description:

Sampling a wetland; note cattails about 8 feet north of the sampling location; sampling location near northwest portion of the former S.H. Tuber Company

(Tuber) Dump



Photograph No. 5 West Orientation:

Sampling Location: SD-07 Date: 03/24/93

Description: Sampling in a wetland; note the cattails about 20 feet west of the sampling location;

the sampling location is next to northern border of the Tuber Dump fill area;

sampler is in right foreground



Photograph No. 6 Orientation:

Sampling Location: SD-06 South Date: 03/24/93

Description:

Sampling near the northeast corner of the pond located along the eastern border of

the former Tuber Dump; note floating cattail island in the distance



Photograph No. 7 Orientation: North Sampling Location: SD-08

Date: 03/24/93

Description: Sampling in a wetland area in the northeast corner of the former Tuber Dump



Photograph No. 8 Orientation: North Sampling Location: SD-03 and SW-03

Date: 03/24/93

Description: Sampling in the pond located in the northeast portion of the site; note fallen tree in

background



Photograph No. 9 Sampling Location: SW-05 Orientation: West Date: 03/24/93

Description: Sampling surface water in the northwest corner of the site



Photograph No. 10 Orientation: South

Description: Sampling sediment in the northwest corner of the site Sampling Location: SD-05 Date: 03/24/93



Photograph No. 11 Sampling Location: GW-01 Orientation: Northeast Date: 03/24/93

Description: Monitoring well in northeast portion of the Tuber fill area

APPENDIX C
4-MILE RADIUS MAP

(1 Sheet)

$SDMS\;US\;EPA\;Region\;V$

Imagery Insert Form

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| | 4-MILE RADIUS MAP |
| | Other: |
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ATTACHMENT A
REGIONAL WELL LOGS

(16 pages)

THE OHIO DRILLING CO. MASSILLON, OHIO



| DRILLED FOR | The Commo | dore Perry | Hotel, | Toledo, | Ohio | HOLE NO.1 | - 10" | _We] |
|-------------|-----------|-------------|--------|---------|-----------|------------|-------|------|
| DRILLED BY | Theodo | re Uodegraf | | DRILLER | COMPLETED | August 17, | 19.35 | _ |

| LOCATION LO | LOCATION Located on sidewalk on Superior Street | | | | | |
|---------------------|---|----------------|--------------|--------------------|--|--|
| THICKNESS OF STRATA | STRATA | TOTAL DEPTH | HEAVED | WATER FROM SURFACE | | |
| 70 ft. | Clay | 70 ft. | | | | |
| 5 ft. | Sand, gravel | 75 ft. | | | | |
| 15 ft. | Sand, gravel, clay | 91 ft. | | | | |
| 9 ft. | Sand, gravel, clay, shells | 100 ft. | | | | |
| 30 ft. | Gray limestone - hard | 130 ft. | | | | |
| 30 ft. | Light limestone | 160 ft. | | | | |
| 5 ft. | Limestone, soft light brown | 165 ft. | | | | |
| 45 ft. | Limestone - brown | 210 ft. | | | | |
| 55 ft. | Limestone - white | 265 ft | some water | at 220 ft | | |
| 75 ft. | Limestone - bownish gray | 340 ft. | | | | |
| 60 ft. | Limestone - light gray | 400 ft. | | | | |
| 45 ft. | Limestone - bluish gray | 445 ft. | | | | |
| 95 ft. | Limestone - light gray | 540 ft. | | | | |
| 26 ft. | Limestone - bluish gray | 566 ft | Strata sof | t from 542 to 5 | | |
| 5 ft. | Limestone - brownish gray | 571 ft. | | ļ | | |
| Total dep | th of hole - 571 ft | <u> </u> | | l | | |
| | <u> </u> | <u> </u> | | <u> </u> | | |
| Well cased | with 100 ft. of 10" - 35 lb. | steel drive pi | tpe equipped | with steel | | |
| shoe. Sta | tic water level 160 ft. from s | urface, pumpir | 18 135 g.p. | n. water recedes | | |
| to 360 ft | from surface, 200105 | | | | | |
| | <u></u> J | | | <u> </u> | | |
| Bowls on | test pump were set at 360 ft. f | rom surface. | | | | |
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X: 1,737, 100 AY Y: 727, LOCATED

State of Ohio DEPARTMENT OF NATURAL RESOURCES Division of Water Columbus, Ohio

Nº 112218

Section of Township LUCAS Township Dragon ... or Lot Number... Address 4025 Cordoroy Toledo, Ol. Location of property Carduray Rd PUMPING TEST CONSTRUCTION DETAILS Length of casing 89 Pumping rate.......G.P.M. Duration of test......hrs Casing diameter ... Type of screen.....Length of screen.... Drawdown 2 ft Date Type of pump Jet Static level—depth to water... 55 ft Pump installed by Priller 80 Depth of pump setting ____ WELL LOG SKETCH SHOWING LOCATION **Formations** Locate in reference to numbered Sandstone, shale, limestone, From To State Highways, St. Intersections, County roads, etc. gravel and clay 0 Feet Ft. N. Clay Limestone Corduro S. See reverse side for instructions Drilling Firm Dewy Widnes + Son

TIO COMPA

State of Ohio OHIO WATER RESOURCES BOARD Department of Public Works

No

28934

553 E. Broad St., Columbus 15, Ohio

Township WASHINGTON or Lot Number DIELY 2 BLOCKS Location of property... CONSTRUCTION DETAILS PUMPING TEST Pumping rate 3.0 G.P.M. Duration of test Length of screen Type of screen... Drawdown. .ft. Date. Type of pump DURO Developed capacity_ Capacity of pump ______317 Static level of completed well Depth of pump setting _____ Pump installed by DRAUILLARD WELL LOG SKETCH SHOWING LOCATION Locate in reference to numbered Formations of a selection of the letters to will in the c Sandstone, shale, limestone, From :: To State Highways, St. Intersections, County roads, et ---gravel and clay ,.:.. ? - - -...0 Feet.. 21 Mat Caelt as accurate us e siele in ce ording this n4 .% ... W. See reverse side for instructions houlland Sel. Drilling Firm

Address

State of Ohio DEPARTMENT OF NATURAL RESOURCES Division of Water

Columbus, Ohio

Nº 156559

| County LUCAS T | ownship. M | ASHIN | GTON Section of Township |
|--|------------|--|---|
| Owner GRYILLE. | | | _ / |
| | | | or Benou Rd- and 100 ft South o |
| CONSTRUCTION D | ETAILS | | PUMPING TEST |
| Casing diameterLengt Type of screenLengt Type of pump Capacity of pump Depth of pump setting | | Pumping rate 12 G.P.M. Duration of test Drawdown 20 ft. Date 5/22/5. Developed capacity Static level—depth to water 45 Pump installed by | |
| WELL LOG | | | SKETCH SHOWING LOCATION |
| Formations Sandstone, shale, limestone, grave! and clay | From | | Locate in reference to numbered State Highways, St. Intersections, County roads |
| | 4, 3 | 43 | N. Detruit mich N. Detruit mich See reverse side for instructions |
| Drilling Firm & F | intal | | Date 5/27/55 |
| Address 227 Carla | f | Signed C. F. Kirly | |

State of Ohio OHIO WATER RESOURCES BOARD Department of Public Works

Nº 28938

553 E. Broad St., Columbus 15, Ohio Section of Township Township... CONSTRUCTION DETAILS PUMPING TEST Casing diameter 4/4" Length of casing ____ Pumping rate 650676.P.M. Duration of test Drawdown LONE ft. Date MARCA Type of screen... Length of screen H.P. DUBMERGIBL Developed capacity ___ Capacity of pump . Static level of completed well. Pump installed by P.J. D. P. O. P. D. P. D Depth of pump setting . WELL LOG SKETCH SHOWING LOCATION a tropics Locate in reference to numbered Sandstone, shale, limestone, From To · State Highways, St. Intersections, County roads, e gravel and clay 5000 and WATER A See reverse side for instructions

LIT- BUE Signed .

State of Ohio OHIO WATER RESOURCES BOARD Department of Public Works 553 E. Broad St., Columbus 15, Ohio

Nº 28939

County LUCAS Township WASHING TON Section of Township or Lot Number Address SORNNE ST. Owner SUMMERS Location of property 1 BLOCK OFF STATE LINE RD - OFF STATE RTE, 25 CONSTRUCTION DETAILS PUMPING TEST Casing diameter 414" Length of casing 40' Pumping rate 400 G.P.M. Duration of test.... ft. Date July 1958 Drawdown Type of screen.....Length of screen.... Type of pump..... Developed capacity _____ Static level of completed well... Capacity of pump Pump installed by OUNER Depth of pump setting _____ SKETCH SHOWING LOCATION WELL LOG Locate in reference to numbered Formations Come and The process of Sandstone, shale. limestone, From To . State Highways, St. Intersections, County roads, et gravel and clay with and O Feet . ## Ft. LIME STONE COLOR DIRECTOR SET US CINC 33 3 3 5 E 55 WATER AT See reverse side for instructions Date . Signed H. J. Abrillard Potanil (wel.

State of Ohio

PLEASE USE PENCIL OR TYPEWRITER DO NOT USE INK.

DEPARTMENT OF NATURAL RESOURCES

Division of Water

| | | | ••• |
|-----|----|-------|--------|
| 562 | W. | First | Avenue |
| _ | | | |

Nº 29408

| , | | Columbus | <i>U 20</i> | | | |
|---|--------------|---------------------------------------|---|--|--|--|
| County Lucas | Township | 12/20 | Section of Township | | | |
| Owner Harry a | Dane | ~ | Address 5204 Harvest ha | | | |
| Location of property 5656 Detroit Ave on Private Rd | | | | | | |
| CONSTRUCTION | DETAILS | | BAILING OR PUMPING TEST | | | |
| Casing diameter 4 Leng | gth of casin | <u> 59</u> | Pumping Rate 25 G.P.M. Duration of test | | | |
| Type of screen None Leng | gth of scree | n | Drawdown 6 ft. Date Or 23, 10 | | | |
| Type of pump Submer | eible | · · · · · · · · · · · · · · · · · · · | Static level-depth to water 60 | | | |
| Capacity of pump 15 | GPW | \ | Quality (clear, cloudy, taste, odor) | | | |
| Depth of pump setting | 5 5 | - | | | | |
| Date of completion Oct | 23,1 | 96 4 | Pump installed by Oriller | | | |
| WELL LO | G | | SKETCH SHOWING LOCATION | | | |
| Formations Sandstone, shale, limestone, gravel and clay | From | To | Locate in reference to numbered State Highways, St. Intersections, County roads, et | | | |
| Clay | 0 Feet | _25Ft | N. , | | | |
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| <u>,</u> | | | See reverse side for instructions | | | |
| Drilling Firm Fred B | Mx- | Son | Date Dec 14 1964, | | | |
| Wayy Y | Flexic | | In PRILL | | | |
| Address 7727 A | 10115 | 77 | Signed XEE R 15W1/ | | | |

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PLEASE USE PENCIL OR TYPEWRITER

State of Ohio DEPARTMENT OF NATURAL RESOURCES Division of Water 1562 W. First Avenue Columbus, Ohio 43212

No 33287

DO NOT USE INK.

County LUCAS Township WASHINGTON Section of Township /2 Address NORTH DIXLE HWY US 25 Told OWNER LUCAS COUNTY ASPNALTE Location of property SOUTHOF KNIN) APROR CHESK PEAKE RR EAST OF US 25 CONSTRUCTION DETAILS BAILING OR PUMPING TEST Casing diameter 41/4 Pumping Rate /5 G.P.M. Duration of test 3 Length of casing.... Drawdown FO 75 ft. Date SEPT-1965 Type of screen NONE Length of screen Static level-depth to water 62' Type of pump_ Quality (clear, cloudy, taste, odor) CLEAR Capacity of pump__ Depth of pump setting.... Date of completion. Pump installed by... WELL LOG* SKETCH SHOWING LOCATION Formations Locate in reference to numbered Sandstone, shale, limestone, From To State Highways, St. Intersections, County roads, e gravel and clay N. 14' Ft MICHARAN 0 Feet SAND-CLAY SOFT BLUE CLAY 30 MARD PAN 30 BLUE CLAY 50 BROWN -BLUE -LIME SIR DORT W. ALEXIS ROAD See reverse side for instructions Drilling Firm LARSON DRILLINGTMACH CO. Date .

Address 211 WEST SCPNIA ST. MAUNZE ONIS

TOO AND DKILLING KEP<u>OK</u>T

State of Ohio

DEPARTMENT OF NATURAL RESOURCES PLEASE USE PENCIL OR TYPEWRITER

Division of Water

Nº 334696

| DO NOT USE INK. | Columbus, Oh | | |
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| County LUCAS | Township OREC | ON Section of Township 24 | _ |
| ▼ | • | Address 4652, Beater Poil Rd | |
| | | en Rd on Celan 1-1.7-17-17 | _ |
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| CONSTRUCTION DETAILS Casing diameter ### DD Length of casing ### Type of screen Length of screen Type of pump | | | BAILING OR PUMPING TEST | | |
|--|--------|--------|--|--|--|
| | | | Pumping Rate 14 G.P.M. Duration of test his Drawdown 15 ft. Date 11/4/6.7 Static level-depth to water 1,3 | | |
| Capacity of pump | | | Quality (clear, cloudy, taste, odor) | | |
| Depth of pump setting | | | Pump installed by | | |
| WELL LO | OG* | · | SKETCH SHOWING LOCATION | | |
| Formations Sandstone, shale, limestone, gravel and clay | From | То | Locate in reference to numbered State Highways, St. Intersections, County roads, etc. | | |
| Clay -1- Sinand | 0 Feet | 20 Ft. | OEDER-PAIRE | | |
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| | | | S. See reverse side for instructions | | |

Address 227 July Journal 112016 Of Signed

WELL LOG AND DRILLING REPORT

NO CARBON PAPER NECESSARY-

DEPARTMENT OF NATURAL RESOURCES Division of Geological Survey Fountain Square

4/3839

SELF-TRANSCRIBING Columbus, Ohio 43224 Phone (614) 466-5344

| COUNTY LUMS | _ TOWNSHIP | Opsi, or | SECTION OF TOWNSHIP |
|--|--|--|--|
| OWNER UNION OIL | <u></u> | | _ ADDRESS 1843 0774 |
| LOCATION OF PROPERTY | | | TIPE COL |
| CONSTRUCTION | DETAILS | | BAILING OR PUMPING TEST |
| Casing diameter 4/1 | ength of casing. | 11/. | Test rate gpm Duration of test hr |
| Type of screen Le | | | Drawdown ft Date |
| Type of pump | | | Static level (depth to water) |
| Capacity of pump | | | Quality (clear, cloudy, taste, odor) |
| Depth of pump setting | | | · |
| Date of completion | | | Pump installed by |
| WELL LO | G* | | SKETCH SHOWING LOCATION |
| Formations: sandstone, shale, limestone, gravel, clay | From | То | Locate in reference to numbered state highways, street intersections, county roads, etc. |
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| DRILLING FIRM $\frac{IVER(2I)}{5700 \text{ Area}}$ | જુંલા ∙ ∗ · · જાંઓા. કહ્યું | n | DATE 1/11/11 |
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^{*}If additional space is needed to complete well log, use next consecutive numbered form.

WELL LOG AND DRILLING REPORT

. NÒ CARBON PAPER

NECESSARY-

DEPARTMENT OF NATURAL RESOURCES Division of Water

Fountain Square

592049

SELF-TRANSCRIBING Columbus, Ohio 43224 _____ TOWNSHIP______ SECTION OF TOWNSHIP____ Ide SSV ENTERPHIZES INC. ADDRESS STECTION GEEL INC. LOCATION OF PROPERTY Program Phic (BAILING)OR PUMPING TEST CONSTRUCTION DETAILS (specify one by circling) Duration of test___ _ gpm Date / C / 12 / \$ 2 Type of screen _ Length of screen. Type of pump_ Static level (depth to water), Quality (clear, cloudy, taste, odor)_ Capacity of pump_ Depth of pump setting. Date of completion, Pump installed by. WELL LOG* SKETCH SHOWING LOCATION Formations: sandstone, shale, Locate in reference to numbered From To limestone, gravel, clay state highways, street intersections, county roads, etc. 10 to l-c ノじ 60 84 24 Ε DRILLING FIRM

If additional space is needed to complete well log, use next consecutive numbered form.

NO CARBON PAPER HECHIARY-SELF-TRANSCRIBING

WELL LOG AND DRILLING REPORT State of Ohio

DEPARTMENT OF NATURAL RESOURCES

Division of Water (514) 403-36

4 393019

171 64 64 65 65 3

Columbus, Oblo 43218 Owner Pan American Chamical Corp. Address 500 Matringer Road, Tolode, Chie Location of property 600 Matringer Reed, Tolado Ohio BAILING OR PUMPING TEST CONSTRUCTION DETAILS (Ryscily one by draling) Test Rate 250 G.P.M. Duration of test 19/2/17 of screen Hone Drawdows_67 R. Deta. Leagth of person. Statle low Type of pump Duning Submanulble Quality (clear, cloudy, taste, edor). GFM 3≈ f7. Depth of pump setting.... Dupber Drilling Inc. 2-17-72 Pump installed by... Date of completion_ WELL LOG+ SKETCH SHOWING LOCATION **Formations** Locate in reference to numbered Sandstone, shale, limestone. Frem To State Highways, St. Intersections, County reads. gravel and clay N 1 Test R Taller Clay seems of sand Cray clay Ы _Stoner_bardnan_ 23 73 Broken Line exer brown HOLE THATE TI Light gray & brown line ! 117 To a proper _light_erer_line_ 137 205 Light brown line 220 224 Light stay line Light broom line Light ever line 330 330 Light bron line 191 Light ster line L Tery light ever almost of Drilling Firm Dunbar Drilling Inc. Karch 1972 Deta 207 Presduar, Prenton, 6010 Address .

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vell-log and drilling report

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State of Ohio DEPARTMENT OF NATURAL RESC

Division of Water 1562 W. First Avenue

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| NEST | 1 | 19/5 |

Columbus. Ohio 43212 County_LUCAS Township WATER VILLE Section of Township OWNER TOLEDO HOUSE OF CORRECTION Address WHITEHOUSE Location of property SHADLE RD CONSTRUCTION DETAILS BAILING OR PUMPING TEST Casing diameter 5 5 4 6 Length of casing... Pumping Rate 20 G.P.M. Duration of test 24 hrs. Drawdown 2 2 ft. Date 12 - 21 - 75Length of screen. Type of screen..... Type of pump "R & DOA Static level-depth to water Quality (clear, cloudy, taste, odor) CLEAR Capacity of pump...... SLIGHT SULPHUR TARKS & ODOR 49 + Depth of pump setting ... Pump installed by N. TIPLARY. Date of completion..... **WELL LOG*** SKETCH SHOWING LOCATION **Formations** Locate in reference to numbered Sandstone, shale, limestone, From To State Highways, St. Intersections, County roads, etc. gravel and clay N. 0 Feet 8 Ft. 5440 83048'08" 8 YELLOW 20 BLUE CLAY 20 41'29'52" 25 27 25 SHALE 27 LIMBSTONE Wan 1 E. VEAROUS - WATECVILLE See reverse side for instructions Drilling Firm NORMAN TIPLADY Date Signed ...

43558 OHIL *If additional space is needed to complete well log, use next consecutive numbered form.

| DRILLER'S WELL RECORD RT 1 - 8-X 141K SWANTEN, | - 344323 |
|--|-------------------|
| RO Name CITY OF TOLEDO - HOUSE OF CORR | BETION ED |
| ome Address SHRDLE RD, Phone | 1975 |
| siness Address Phone | |
| ty INNITEHOUSE State GHIC | • |
| ell Location ' | - |
| sing Size 5 5 8 1, D, - 6 "O, D, | <u> </u> |
| te Drilling Started JEPT 23-75 Date Completed SCPT, 25-75 | est 2 4 hr |
| pth of Well 65'4" Depth to Water Head 21'9" | f |
| 20 G. I.M. proximate Gallons per Hour 1200 Depth to Static Water Head 46 | 4 R |
| np 3 HP. 3 \$ Pipe 2" Casing Cap Williams | ODOR |
| ll Depth Witness | |
| marks DRILLED 5" HOLE TO 30-SET C"CASING-INSIDE | |
| ROUTED WITH READY MIX CONCRETE 20' | roads, etc. |
| HOURS FOOTAGE DRILLER'S FORMATION ENGOUNTERED NUMBER OF FEET | DASING LENGTHS |
| -23 7 30' n.T. a-8' SAND | 10'-4. 3 |
| -24 7 22' W.T. 5-20' YELLOW CLAY | 101-4.0 |
| -25 5 13'-6" 71.T. 20-25' BLUE CLAY | 9-17 |
| 25-27' SHALE | 2'-1" |
| 27-65'6"-LIMESTENE | |
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| | 32/8/ |
| s casing damaged? No Was casing tight? YES - 6-Acate | 0-201 |
| a well be drilled deeper? VES If not, why? | |
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| S. See reverse side for | instructions |
| Drilling Firm Noeman Tipenoy Date | |

*If additional space is needed to complete well log, use next consecutive numbered form.

Signed .

| | | | RILLING REPORT WELL #2 | D * |
|---|-------------|-------------|---|------------|
| O NOT USE INE. | C | 1562 W. Fin | this 43212 WELE VED | R . |
| County Lucas | Township_ | WATER | hio 43212 UEC 1475 IMPSection of Township 1475 | |
| Owner TOLENO H | ense of | - CORNEC | Middress Shadle Road | |
| Location of property CORN | en of N | enpalis - | waterv: 1/e Read & Shadke | |
| CONSTRUCTION | DETAILS | | BAILING OR PUMPING TEST | |
| asing diameter 57 Len | • | _ | Pumping Rate S.O. G.P.M. Duration of test | |
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| ype of pump | | | Static level-depth to water | |
| spacity of pump | | | Quality (clear, cloudy, taste, odor) | - |
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| ate of completion | | | Pump installed by | = |
| WELL LO | G* | | SKETCH SHOWING LOCATION | |
| Formations Sandstone, shale, limestone, gravel and clay | From | То | Locate in reference to numbered State Highways, St. Intersections, County roads, etc. | _ |
| SANO | 0 Feet | 8 Ft. | N. | _ |
| YELLOW CLAY | 8 | 20= | HAL | |
| BLUE CLAY | 20 | 25- | | |
| SHALF | 25 | 27 | | |
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| | | | See reverse side for instructions | |

Address Signed

DBILLER'S WELL RECORD

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| ome Address SHA | | | | | D . |
| siness Address | | Phon | 10 | | |
| Y WHITEH | 64SE | State | OHIO | | |
| | | MAIN BUILDING | | | ***** |
| sing Size 5 For 1, 1 | | | | | • |
| te Drilling Started PR | | | 13-1975 | | sth |
| pth of Well 86' | | Depth to Water Head | , , | | *************************************** |
| proximate Gallons per Ho | 10 G.P. M | . Depth to Static Water Head | 67' | | |
| пр Зн.Р. 3ф | | | w, LLIAM | , <u>s</u> | · |
| ll Depth | Witness | • | | | *************************************** |
| | | TO 29'-SET CASIN | R INSIDE | | Ŋ |
| | | MIX CONCRETE 201 | <u> </u> | | |
| | GE DRILLER'S | FORMATION ENCOUNTERED | NUMBER OF FEET | CASING LENGTHS | coads, etc. |
| -8 4 2 | o' N.T. | * SAND | 0-8 | المحادد | |
| 10 5 1. | | YELLOW CLAY | 8-20 | 1016 | 4 |
| 2-11 6 2: | 3º N.T. | BLUE CHAY | 20-25 | 10'6" | , ' |
| 2-12 6 20 | | SHALE | 25-27 | 11 '3" | : |
| 1-13 3 4 | " N.T | LIMA STONE | 27-8c | ļ | • |
| | _ | | | | |
| | | | | <u> </u> | E |
| | | | | 3219" | , |
| casing damaged? | | Was casing tight? YES | CAMENT | | • |
| well be drilled deeper? | | If not, why? | 14 W 2 - 1 | <u> </u> | |
| | | | | <u>-</u> | , |
| ~~~~ | | | S. | ' | |
| | | See re | verse side for i | instruction | <u>. </u> |
| Orilling Firm | | Date | | | |
| Address | | Signed | | | |

If additional space is needed to complete well log, use next consecutive numbered form.

State of Ohio DEPETMENT OF NATURAL RESOUR IS

Division of Water

65 S. Front St., Rm. 815 · Phone (614) 469-2646 Columbus, Ohio 43215

No. 393038

| Location of property Rt & | | الشريطي بين ما ليدر الي | BAILING OR PUMPING TEST (Specify one by circling) | |
|--|--------|--------------------------------|---|--|
| repe of screen Length of casing /C repe of pump pacity of pump pth of pump setting te of completion WELL LOG* | | | Test Rate 3.5 G.P.M. Duration of test 2 Drawdown ft. Date 12 3, 1973 Static level-depth to water 4 Quality (clear, cloudy, taste, odor) 6.2233 | |
| | | | SKETCH SHOWING LOCATION | |
| Formations Sandstone, shale, limestone, gravel and clay | From | To | Locate in reference to numbered State Highways, St. Intersections, County roads, etc. | |
| , | 0 Feet | Ft | N. | |
| Sand | 0 | 14 | RT 64 | |
| | | | W. 4.059- | |
| | | | W. €,056 | |
| | | | | |
| 1 | | | S. To | |

State of Ohio IENT OF NATURAL RESOURCE USE PENCIL Nº 309466 TYPEWRITER Division of Water O NOT USE INK. 1562 W. Pirst Avenue Columbia 12, Ohio BELONGS IN Sivanto SWANTON TWP Section of Township. Location of property. CONSTRUCTION DETAILS BAILING OR PUMPING TEST Length of casing 67 G.P.M. Duration of test.... Casing diameter 50/B Pumping Rate. Drawdown 12.0 ft. Date Type of screen.....Length of screen. Static level-depth to water ... Type of pump...... Quality (clear, cloudy, taste, odor)...... Capacity of pump..... Depth of pump setting Pump installed by. Date of completion .. WELL LOG SKETCH SHOWING LOCATION **Formations** Locate in reference to numbered Sandstone, shale, limestone, From To State Highways, St. Intersections, County roads, etc. gravel and clay 0 Feet AS Ft N. HED PAN -instance E See reverse side for instructions

Address Carling

Signed ______ Vollance

LOCATE

NO CARBON PAPER

DEPARTMENT OF NATURAL RESOUR

NECESSARY Division of Geological Survey

Fountain Square

Columbus Ohio 43224

State of Ohio DEPARTMENT OF NATURAL RESOURCES

483474

| OWNER EURENE | Penn | ADDRESS Neapolis |
|---|---|--|
| LOCATION OF PROPERTY | mile asa | that of Meapolis |
| CONSTRUCTION | THE WAS THE WAR PLEASE OF THE | BAILING OR PUMPING TEST |
| asing diameter 6 | ength of basing | Test rate 5 gom Duration of test |
| ype of ecisen | ength of screen | Drawdown 103 1 Done 4/2/75 |
| ype of pump | -11-11-11-11-11-11-11-11-11-11-11-11-11 | Static level (depth to sector) |
| apacity of pump | | Opality (Class Cloudy, taste, odor) |
| epth of pump setting | | |
| ate of completion | | Pump inetalled by |
| . WELL LO |) 6• | SKETCH SHOWING LOCATION |
| Formations: sendstone, shale, limestone, gravel, clay | from To | Locate in reference to numbered state highways, street intersections, county roads, etc. |
| Sand | - On 7 | No. 17 Page 18 Page 18 No. 1 |
| (Val | 37. 56 | The state of the s |
| Hand Day | 56 70 | |
| line at to D. | 70 /32 | |
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| | | The second secon |
| | | Waterille Keapolis Ka |
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| 10748 1287 (1975) | 125 | |
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| The second second | | 3/2 |
| | 30 111 44 | |
| *. / <i>I</i> . | 41 11 DI | |

WELLLLOG

Oregon Twp.

DUNBAR DRILLING INC. SWANTON, OHIO

| Customer Phillips 1 | Petroleum Comp | RRY | · |
|---------------------------|---------------------------------------|---|--------------|
| Address 959 Adems | Building - Be | rtlesville, 0 | clabona |
| Job Name Same | | | <u> </u> |
| - | Station - 3855 | York Street | |
| Oregon, Ot | io | | II No. 1 |
| Strainer: Overall Length_ | Dia | Ft. of S | Slot |
| Slot Size No | | Fittings | |
| Mfd. By | | Material | |
| Mfd. By | _6_" Wt | fb. Туре | |
| No. FtSize_ | " Wt | Тъ. Туре | |
| No. FtSize_ | " Wt | îb. Туре | |
| Drive Shoe: Size 6 " | Size" | Size" | |
| Static Water Level 58 | .Ft. Comple | eted depth of well | 1115 fc |
| Surging and Developing: | Total Time | Hrs. | |
| GPM PUMPING | LEVEL LEN | GTH OF TEST | TEMPERATURE |
| <u>• 30</u> <u>75</u> | Ft | 1 Hrs. | °F. |
| | Ft | Hrs. | °F. |
| | Ft | Hrs. | °F. |
| | Ft | Hrs. | °F. |
| REMARKS: # Bailer | Test | <u> </u> | |
| | | · | |
| • | | · | |
| | | | - |
| | | | |
| Date Started Bep tember | · 10,1962 | ompleted Septem | iber 17,1962 |
| DRILLER | HELPER | ı | IELPER |
| Larry Dunbar | · · · · · · · · · · · · · · · · · · · | · · · · · <u> · · · · · · · · · · · · ·</u> | |
| | | | |

WELL LOG AND DRILLING REPORT

NO CARBON PAPER MECERSARY-BELF-TRANSCRIBING

4 393019

DEPARTMENT OF MATURAL RESOURCES
Division of Wines
65 S. Front St., Sm. MS Phone (814) 68-6868
Columbus, Oblo 68215

| Owner Pan American Change Location of property 600 Ma | ical Corp. | | Address 600 Natsinger Read, Telede, Chie | | |
|--|------------------|----------|---|--|--|
| Construction Details Cools diameter Longth of eming 129 Type of screen None Longth of screen Type of pump Desire Schoolelle Capacity of pump 205 G F W Depth of pump setting 20c f T. | | | BAILING OR PUMPING TEST (Breekly one by sheding) | | |
| | | | Test Rate 250 G.P.M. Duration of test Index of the Index | | |
| Date of completion 2-17 | | | Pump installed by Dunbar Drilling Inc. | | |
| WELL LO | | | SECTCH SHOWING LOCATION | | |
| Formations Sandstone, shale, limestone, gravel and clay | From | То | Locate in reference to numbered State Highways, St. Intersections, County roads, etc. | | |
| Tellor Clay seems of send | 0 Feet | 2 Fr | N. | | |
| Stoper bardpan | -7 -68 -73 | | | | |
| Broken Line gray, hrom & Light gray 6 brown line he | | 137 | THE PHOTE TO | | |
| Light brown line | 197 | 205 | W. | | |
| Light gray line | 220 | 226 | | | |
| Light brown line | 226 | _330 | | | |
| light brown line | 330 | 393 | | | |
| Lists erer line | 91 | A25 | 8. | | |
| Drilling Firm Dusber Brill | ine fac. | <u> </u> | Don March 1972 Name fe Braken | | |

HRS Score: 29 Site Name: Treasure Asland CERCLIS ID No.: 040 9806(130)

SCREENING SITE INSPECTIONS EXPANDED SITE INSPECTIONS**

**TAKEN FROM GUIDANCE FOR PERFORMING SITE INSPECTIONS UNDER CERCLA INTERIM FINAL DATED SEPTEMBER 1992

** NARRATIVE REPORT INCLUDING

INTRODUCTION

SITE DESCRIPTION/REGULATORY HISTORY

OPERATIONAL HISTORY/WASTE CHARACTERISTICS

PRESENTATION OF ANALYTICAL DATA

PATHWAY DISCUSSIONS

SUMMARY

2/ PHOTO DOCUMENTATION

3) TOPOGRAPHIC MAPS INCLUDING 4-MILE AND 15-MILE RADIUS

4) SITE SKETCH

5/ SITE LOCATION MAP

7) OTHER APPENDICES

8) REFERENCES

TRANSMITTAL MEMO OR LETTER INDICATING EVENT QUALIFER

10) PREScore Worksheets

11) EPA FORM 2070-13

Reviewer: 19/27/95
Date Approved 19/27/95